

COURSE DESCRIPTIONS

In this section, courses are listed to show what is normally offered at Red Deer College. Some courses are not offered every year. Check the timetable to see if specific courses will be offered.

Each course is identified by the name of the subject, followed by a course number and a course weight. The instructor/student contact hours are also shown as well as the number of weeks the course normally lasts, the title of the course, and a brief description.

Example:

ACCT 206-3 (BC=4)
(3-1) 15 weeks
Auditing

ACCT	name of the subject, often an abbreviation
206	the course number which gives the course a unique identity
-3	the number which follows the dash is the course credit weight
(BC=4)	the number of billing credits
(3-1)	the instructor/student contact hours per week; 3 hours of class and 1 hour of lab
15 weeks	the number of weeks the class runs
Auditing	the title of the course

Assignment of Academic Credits, or Credit Weight, to Courses

Course credits are a measure of learning opportunities based on the number and type of instructional hours or equivalent learning experiences. For Red Deer College Diploma and Certificate courses, academic credits are normally equal to billing credits. For courses in University Transfer Programs, academic credits are normally equal to the credit given at university. This is usually equal to the number of lecture hours.

Definitions

Credit - The equivalent of 15 hours of class instruction. (Example: 1 hour per week for 15 weeks including the final exam period.)

Course - A series of learning opportunities within a specific subject area to which a final grade is assigned.

Courses have a variety of learning opportunities, among which are the following:

Class - a series of learning activities aimed at acquiring theory.

i) Activities in the class are directed by the instructor

OR

ii) Context based Learning

Lab - a series of structured learning activities to facilitate the application of concepts, theories and principles.

Seminar/Tutorial - a series of structured learning activities aimed at further exploration and application of concepts, theories and principles.

Clinical - a series of learning activities aimed at applying theory in prescribed clinical experiences.

Practicum - a learning activity aimed at combining theory with practical experience.

Field Work - an educational experience involving work of a practical nature acquired by students in a work situation.

Instructor/Student Contact Hours

The figures in brackets following the course title and number show the number of contact hours per week. The first figure is the number of class hours. The last figure is the number of lab hours. Seminar hours are identified with an S. Practicum, Clinical and Fieldwork are usually expressed as total hours.

(3-0) Three hours of classes per week. No labs.

(3-3) Three hours of classes and three hours of labs per week.

(0-3) No classes.
Three hours of labs per week.

(3-1S-3) Three hours of classes,
1 hour of seminar, and
three hours of labs per week.

(3/2) Classes on alternate weeks

Course Length

Length of courses may vary, see timetable for length of courses.

A term usually lasts 15 weeks, including the exam period. Courses lasting 15 weeks are called term courses.

Some courses last two terms, or 30 weeks. This includes two exam periods, one at the end of each term. These courses usually run from September to April. They are called full courses.

Prerequisites and Co-requisites

Courses listed as prerequisites must be completed before you start the course in question. For example, BIOL 297 lists Biology 30 or equivalent as prerequisite. This means that you must complete Biology 30 or equivalent before you can take BIOL 297. Courses listed as co-requisites must be taken at the same time as the course in question.

Note: You usually have to complete a junior course in the same subject before you can take a senior course. This is true even if it is not listed as a prerequisite. If you wish to register in a 300-level course without having taken at least one 200-level course in the same subject, check with an advisor.

Restricted Courses

Some courses are available only if you are admitted to a certain program.

Reserved Courses

Some courses are available first to students in a certain program. Once most students have registered, these courses are opened to all students.

You can find information on restricted and reserved courses in the College Timetable.

Accounting

ACCT 075-6 (BC=6)
(6-0) 15 weeks

Basic Accounting

See "Career and Academic Preparation Courses," page 201.

ACCT 102-4 (BC=4)
(4-0) 15 weeks

Introductory Accounting I

Theory and practice of accounting as applied to the accumulation, external reporting, and external uses of financial accounting information.

Credit will not be granted for both ACCT 102 and 202.

ACCT 103-4 (BC=4)
(4-0) 15 weeks

Introductory Accounting II

Preparing and analysing accounting information for shareholder and management use.

Prerequisite: ACCT 102

Credit will not be granted for both ACCT 103 and 202.

ACCT 104-3 (BC=3)
(3-0) 15 weeks

Managerial Accounting

Using accounting information for managerial decision making, operating and capital budgets, and product costing.

Prerequisite: ACCT 102

Credit will not be granted for both ACCT 104 and 204.

Diploma students may take either ACCT 104 or 204. Bachelor of Commerce must take ACCT 204 (and may not take ACCT 104).

ACCT 106-4 (BC=4)
(3-2) 15 weeks

Management Accounting and Finance

Using accounting information for managerial decision making. Budgeting, financial forecasting and analysis, and an introduction to corporate finance.

Prerequisite: ACCT 102

Credit will not be granted for both ACCT 104 and 106.

ACCT 202-3 (BC=5)
(5-0) 15 weeks

Introductory Financial Accounting

Postulates, principles of accounting relating to external reporting, and uses of financial accounting information. Emphasis is on accounting for organizational resources and equities, preparing and analysing financial statements, and reporting to owners, creditors, and other external decision makers.

Note: Designed for Second Year Commerce Students.

Credit will not be granted for both ACCT 102/103 and 202.

ACCT 204-3 (BC=3)
(3-0) 15 weeks

Managerial Accounting

ACCT 204 covers the same topics as ACCT 104 in more depth and adds several additional topics.

Prerequisite: ACCT 103 or 202

Credit will not be granted for both ACCT 104 and 204.

Bachelor of Commerce students must take ACCT 204. Diploma students may take either ACCT 104 or 204.

ACCT 205-3 (BC=3)
(3-0) 15 weeks

Cost Accounting

Basic cost accounting and multiple purpose systems for management control. Profit-cost relationships. Inventory valuation. Material costing. Budgeting and performance evaluation. Standard costs. Variance analysis. Direct costing and relevant costing. Cost allocation. Process costing.

Prerequisite: ACCT 104 or 204.

ACCT 206-3 (BC=4)
(3-1) 15 weeks

Auditing

Objectives, principles, standards, and procedures of external auditing. Audit of assets, liabilities, equity, revenue, and expenses.

Prerequisite: ACCT 103 or 202.

ACCT 209-4 (BC=5)
(4-1) 15 weeks

Intermediate Financial Accounting I

Generally accepted accounting principles. Objectives of financial statements. Revenue recognition. Time value of money. Valuation of current assets. Accounting for inventories. Fixed assets and long-term investments.

Prerequisites: ACCT 103 or 202.

ACCT 210-4 (BC=5)
(4-1) 15 weeks

Intermediate Financial Accounting II

Monetary and non-monetary liabilities. Accounting for bonds, leases, pensions, and shareholders' equity. Tax allocation. Analysing financial statement information. Statement of changes in financial position. Accounting for changes and correcting errors.

Prerequisite: ACCT 209.

ACCT 310-3 (BC=3)
(3-0) 15 weeks

Advanced Financial Accounting

This is an advanced course in financial accounting that is aimed primarily at students pursuing a professional accounting designation. Emphasis is on investments, consolidations, foreign currency and financial reporting.

Prerequisite: ACCT 209 & ACCT 210

Anthropology

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ANTH 200-3 (BC=3)
(3-0) 15 weeks

People & Biocultural Evolution

An examination of people and culture around the world. The focus will be on archaeological and physical anthropological components (race, evolution).

Note: Do not take ANTH 200 or 201 if you have already completed ANTH 203.

ANTH 201-3 (BC=3)
(3-0) 15 weeks

People and Culture

An examination of people and culture around the world. The focus will be on cultural anthropological components (language, culture growth and culture change).

Note: Do not take ANTH 200 or 201 if you have already completed ANTH 203.

ANTH 203-3 (BC=3)
(3-0) 15 weeks

Introduction to Anthropology

Provides a general introduction to Anthropology through the study of central concepts and key issues, including culture, human cultural development, biological evolution, social organization, cultural theory, symbolic systems and culture change.

Note: You cannot receive credit for ANTH 203 if you have previously taken either ANTH 200 or 201.

ANTH 204-3 (BC=3)
(3-0) 15 weeks
Global Citizenship

A survey of basic elements of global citizenship. Central concepts to building knowledge and understanding of the interconnectedness of human cultures will be explored by focusing on topics including social justice and equity, diversity, globalization and interdependence, sustainable development, and peace and conflict.

ANTH 306-3 (BC=3)
(3-0) 15 weeks
Introduction to Archaeology

The nature, purposes, theory, and methods of anthropological archaeology. Emphasis is on how past societies are reconstructed from archaeological evidence and the explanation of cultural evolution. Prerequisite: ANTH 200 or ANTH 203, or consent of the Department.

ANTH 307-3 (BC=3)
(3-0) 15 weeks
Introduction to Social and Cultural Anthropology

Comparing human society and culture, particularly non-Western communities. Emphasis is on the family, social structure, political institutions, religion, and processes of change. Prerequisite: ANTH 201 or ANTH 203, or consent of the Department.

ANTH 308-3 (BC=3)
(3-0) 15 weeks
Introduction to Linguistic Anthropology

Language and communication in the context of anthropology. A brief survey of field and analytic methods. Theory of linguistic anthropology. Prerequisite: ANTH 201 or ANTH 203, or consent of the Department.

ANTH 309-3 (BC=3)
(3-0) 15 weeks
Introduction to Physical Anthropology

Human evolution and human variation. Topics include primatology, osteology, hominoid palaeontology, and variation in modern populations. Prerequisite: ANTH 200 or ANTH 203, or consent of the Department.

ANTH 321-3 (BC=3)
(3-0) 15 weeks
Ethnographic Survey of Latin America

A survey of cultural traditions of Mexico, the Caribbean, and Central and South America as they have evolved since the 16th century. Prerequisite: ANTH 201 or ANTH 203, or consent of department.

ANTH 323-3 (BC=3)
(3-0) 15 week
Ethnographic Survey of Africa

Anthropology 323 will survey various groups across Africa going from traditional foraging groups through to current industrial societies in Africa. Prerequisite: ANTH 201 or ANTH 203, or consent of the department.

ANTH 327-3 (BC=3)
(3-0) 15 weeks
Globalization and Indigenous/Cultural Minorities

The survival of indigenous and minority cultures in various societies. Relationships among race, class, culture, and politics. Genocide, ethnocide, and the future of native peoples in the modern state. Prerequisite: ANTH 201 or ANTH 203 or consent of the Department.

ANTH 330-3 (BC=3)
(3-0) 15 weeks
Technology and Culture

Evolution of tools and techniques. How society adapts to environment through technology. Relationships between technology, ideology, and social organization. Prerequisite: ANTH 201 or ANTH 203 or consent of the Department.

ANTH 331-3 (BC=3)
(3-0) 15 weeks
Anthropology of Gender

Comparative analysis of gender as a central feature of social identity and of social relations of power, with particular reference to feminist approaches to the exploration of women's experience in their historical and cultural variety. Prerequisite: ANTH 201 or ANTH 203, or consent of the department.

ANTH 356-3 (BC=3)
(3-0) 15 weeks
Ethnographic Survey of First Nations of Canada

The cultural history of the First Nations peoples of Canada including the analysis of the contemporary groups. Prerequisite: ANTH 201 or ANTH 203, or consent of the Department.

ANTH 357-3 (BC=3)
(3-0) 15 weeks
Applied Anthropology

Introduction to the practical use of anthropological knowledge and research methods. Includes discussion of the specific challenges of practicing anthropology outside of academia. Prerequisite: SOCI 310 or SOCI 312 or consent of the department. You cannot receive credit for ANTH 357 if you have previously taken SOCI 322.

ANTH 361-3 (BC=3)
(3-0) 15 weeks
Peoples & Cultures of Central America

Cultural history of the native peoples of Mexico and Guatemala. Contemporary Indian communities. Prerequisite: ANTH 201 or ANTH 203, or consent of the Department.

ANTH 363-3 (BC=3)
(3-0) 15 weeks
Anthropological Perspectives on Religion

Contemporary anthropological theoretical perspectives on indigenous and world religions. Prerequisite: ANTH 201 or ANTH 203 or consent of the Department.

ANTH 370 (BC=3)
(3-0) 15 weeks
Special Topics in Archaeology

Examination of selected topics in archaeology and/or biological (physical) anthropology. This course may be repeated for credit. Prerequisites: ANTH 200 or ANTH 203, or consent of the Department.

ANTH 375 (BC=3)
(3-0) 15 weeks
Special Topics in Anthropology

Examination of selected topics in social/cultural anthropology. This course may be repeated for credit. Prerequisites: ANTH 201 or ANTH 203, or consent of the Department.

ANTH 391-3 (BC=4)
(3-0-3) 15 weeks
Human Osteology

This is a comprehensive and intensive course on human skeletal material in archaeological context. Lectures and labs will cover techniques for identifying complete and fragmentary skeletal and dental elements, for recognizing the form and function of soft tissue attachments, on bones and for determining individualizing characteristics such as age at death and sex. Additional topics include skeletal growth and development, the identification of the normal range of variation in human skeletal anatomy, and distinguishing human from animal bones. This course should be considered essential for students planning future work in the interpretation of modern and archaeological human remains or the hominid fossil record.

Prerequisites: ANTH 309, or a course in Biology or Zoology, or consent of the Department.

Art

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ART 101-.5 (BC=.5)
(0-1) 15 weeks
Visiting Artists

This is a presentation based course featuring a diverse range of visiting artists who are professionally active in the visual art studio areas. Presentations will contain a variety of graphic content.

Note: This course will be evaluated using a credit (pass)/non-credit (fail) grading system based upon 75% attendance.

Note: Repeat for credit 4 times for 2 credits. To complete their program requirement, BFA and Visual Art students must have completed a total of 2 credits in ART 101. Beginning date for ART 101 is Fall 2002.

ART 201-3 (BC=3)
(3-0) 15 weeks
Art History I

A survey of Art History from Prehistoric to Renaissance.

Note: Not eligible for challenge.

ART 203-3 (BC=3)
(3-0) 15 weeks
Art History II

A survey of Art History from Renaissance to modern.

ART 231-3 (BC=5)
(4-2) 15 weeks
Visual Fundamentals 2D

A foundation level, project based studio course that introduces the formal elements and principles of two dimensional design.

Note: Not eligible for challenge.

ART 233-3 (BC=5)
(4-2) 15 weeks
Visual Fundamentals 3D

A foundation level, project based studio course that introduces the formal elements and principles of three dimensional design.

Note: Not eligible for challenge.

ART 241-3 (BC=5)
(4-2) 15 weeks
Drawing I

Basic theory and practice of drawing.

Note: May include use of life models

Note: Not eligible for challenge.

ART 243-3 (BC=5)
(4-2) 15 weeks
Drawing II

ART 241 continued. Basic theory and practice of drawing. Emphasis is on analysis and motivation.

Prerequisite: ART 241.

Note: May include use of life models

Note: Not eligible for challenge.

ART 251-3 (BC=5)
(4-2) 15 weeks
Two Dimensional Studies - Painting I

Introduction to various materials and techniques in both traditional and contemporary formats.

Note: May include use of life models

Note: Not eligible for challenge.

ART 261-3 (BC=5)
(4-2) 15 weeks
Three Dimensional Studies - Ceramics I

Ceramic process in image and idea.

Note: Not eligible for challenge.

ART 281-3 (BC=5)
(4-2) 15 weeks
Three Dimensional Studies - Sculpture I

Sculptural process in image and idea.

Note: Not eligible for challenge.

ART 301-3 (BC=3)
(3-0) 15 weeks
Art History

Forms and concepts in art and architecture in Canada. Early French and English colonial periods to Confederation.

ART 303-3 (BC=3)
(3-0) 15 weeks
Art History

Forms and concepts in Canadian art and architecture from Confederation to modern. The Group of Seven, Nationalism, Regionalism, and more recent development.

ART 305-3 (BC=3)
(3-0) 15 weeks
Art History

European painting, sculpture, and architecture. The nineteenth century to the end of Impressionism.

ART 306-3 (BC=3)
(3-0) 15 weeks
Art History

Painting, sculpture, and architecture. From the end of Impressionism, through the early art movement of the 20th century, to the 1950's.

ART 310-1 (BC=2)
(1-0) 15 weeks
Professional Practice I

The exploration and application of issues, responsibilities, techniques, and systems related to a professional artistic practice with an emphasis on portfolio development. Prerequisites: ART 231, 233, 241, 243, 251, 261, 281 or department approval.

ART 311-1 (BC=1)
(1-0) 15 weeks
Professional Practice II

The exploration and application of issues, responsibilities, techniques, and systems related to a professional artistic practice with an emphasis on proposals, support agencies, and contractual and financial matters.

Prerequisite: ART 310 or department approval.

ART 341-3 (BC=5)
(4-2) 15 weeks
Drawing III

Theory and practice of drawing. Emphasis is on developing more advanced drawing and perception skills.

Prerequisite: ART 231, 233, 243.

Note: May include use of life models

Note: Not eligible for challenge.

ART 343-3 (BC=5)**(4-2) 15 weeks****Drawing IV**

Emphasis is on refining technique and resolution of working concepts.

Prerequisite: ART 341.

Note: May include use of life models

Note: Not eligible for challenge.

ART 351-3 (BC=5)**(4-2) 15 weeks****Painting II**

ART 251 continued. A contemporary approach to painting that develops individual strengths, using a problem solving approach.

Prerequisite: For AU, U of C, U of L, AUC, B.F.A. program: ART 251, 231, 233 and 243. For U of A, B.F.A. program: ART 231, 233, 243, 251, 281.

Note: May include use of life models

Note: Not eligible for challenge.

ART 353-3 (BC=5)**(4-2) 15 weeks****Painting III**

ART 351 continued.

Prerequisite: ART 351.

Note: May include use of life models

Note: Not eligible for challenge.

ART 361-3 (BC=5)**(4-2) 15 weeks****Ceramics II**

Emphasis is on hand building and surface enrichment. Lectures, critiques, and studio practice.

Prerequisite: ART 231, 233, 243 and 261.

Note: Not eligible for challenge.

ART 363-3 (BC=5)**(4-2) 15 weeks****Ceramics III**

Further work and study in clay. Kiln firing principles and introduction to throwing. Lecture, critiques, and studio practice.

Prerequisite: ART 361.

Note: Not eligible for challenge.

ART 375-3 (BC=5)**(4-2) 15 weeks****Printmaking I**

Relief printmaking, including woodcut, wood engraving, linocuts, and colour printmaking.

Prerequisites: For AU, U of C, U of L, AUC, B.F.A. program: ART 231, 233, 243.

For U of A, B.F.A. program: ART 231, 233, 243, 251/281.

Note: Not eligible for challenge.

ART 377-3 (BC=5)**(4-2) 15 weeks****Printmaking II**

Silkscreen (serigraph) printmaking.

Prerequisites: For AU, U of C, U of L, AUC, B.F.A. program: ART 231, 233, 243.

For U of A, B.F.A. program: ART 231, 233, 243, 251/281.

Corequisite: ART 379.

Note: Not eligible for challenge.

ART 379-3 (BC=5)**(4-2) 15 weeks****Printmaking III**

Intaglio and relief printmaking. Includes etching, engraving, collograph, and colour printing.

Note: Not eligible for challenge.

ART 381-3 (BC=5)**(4-2) 15 weeks****Sculpture II**

Developing and realizing sculpture using various techniques and materials.

Prerequisites: FOR U of C, U of L, AUC, B.F.A. Program: ART 231, 233, 243, 281.

For U of A, B.F.A. Program: ART 231, 233, 243, 251/281.

Note: Not eligible for challenge.

ART 383-3 (BC=5)**(4-2) 15 weeks****Sculpture III**

Further study and work in sculpture.

Prerequisite: ART 381.

Note: Not eligible for challenge.

ART 441-3 (BC=5)**(4-2) 15 weeks****Drawing**

Emphasis is on an individual problem solving approach. You have more responsibility to set visual and conceptual parameters and to extend your visual inquiry process.

Prerequisite: ART 343

Co-requisite: ART 499

Note: May include use of life models

Note: Not eligible for challenge.

ART 443-3 (BC=5)**(4-2) 15 weeks****Drawing**

ART 441 continued.

Prerequisite: ART 441.

Co-requisite: ART 499

Note: May include use of life models

Note: Not eligible for challenge.

ART 451-3 (BC=5)**(4-2) 15 weeks****Painting**

Expanding your ability in and knowledge of painting concepts and processes. Using and handling related media.

Prerequisite: ART 353.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 453-3 (BC=5)**(4-2) 15 weeks****Painting**

ART 451 continued.

Prerequisite: ART 451

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 461-3 (BC=5)**(4-2) 15 weeks****Ceramics**

ART 363 continued. Emphasis is on refining personal imagery in terms of composition and conception. More in-depth understanding of ceramic techniques.

Prerequisite: ART 363.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 463-3 (BC=5)**(4-2) 15 weeks****Ceramics**

ART 461 continued.

Prerequisite: ART 461.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 475-3 (BC=5)**(4-2) 15 weeks****Printmaking - Relief Intaglio**

Technology of relief and intaglio printing processes. Developing personal imagery, effective visual communication, composition, and design.

Prerequisite: ART 375, 379.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 479-3 (BC=5)**(4-2) 15 weeks****Printmaking - Relief Intaglio**

ART 475 continued.

Prerequisite: ART 375, 379.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 481-3 (BC=5)**(4-2) 15 weeks****Sculpture**

Extending your performance base as it relates to ideas, media, and process.

Prerequisite: ART 383.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 483-3 (BC=5)**(4-2) 15 weeks****Sculpture**

ART 481 continued.

Prerequisite: ART 481.

Co-requisite: ART 499

Note: Not eligible for challenge.

ART 499-3 (BC=4)**(4-2) 15 weeks****Studio and Professional Practice**

Seminar that together with self-directed studio research and production fosters a commitment to critical thinking and professional practice. Required co-requisite for students registered in 400 level studio course

Note: May be repeated for credit

Note: Not eligible for challenge.

Astronomy

ASTR 205-3 (BC=3)**(3-0) 15 weeks****The Modern Universe**

A survey of modern astronomy with a focus on how our present views of the universe developed. Exploring the solar system by telescope and spacecraft. The birth and death of stars. Variable stars. Interstellar medium. The Milky Way and other galaxies. Pulsars (neutron stars) and supernovae. The concept of a black hole. Exploding galaxies (radio galaxies) and quasars. The evolution of the universe. The possibilities of extraterrestrial life and interstellar communication.

Automation & Manufacturing Engineering Technology

Open to Engineering Tech Students only

AMET 100-3 (BC=3)**(3-0-1) 15 weeks****Physics**

Obtain a basic foundation in kinematics, statics, dynamics, forces, Newton's laws, motion, torque, scalar and vector quantities, thermal physics, electricity, momentum, work, power, and conservation laws. Practical application of measurement, data analysis, and experimental techniques in lab exercises will reinforce theory.

AMET 105-2 (BC=2)**(2-1-0) 15 weeks****Engineering Drafting**

Learn the graphical language of drafting by learning to represent an object using isometric and orthographic drawings, lettering and line techniques, tolerances, dimensioning and sectioning, multiple views and free hand sketching. Principles of part assembly are also introduced.

AMET 110-3 (BC=3)**(3-1-0) 15 weeks****Engineering Management**

Examine Project Management, Lean Thinking, and Quality Assurance. Learn about the project management process, the role of the project manager and the role of projects in an organization. Learn the concepts of lean and quality assurance and how to incorporate them in the workplace or in a project.

AMET 115-2 (BC=2)**(2-0-1) 15 weeks****Metrology**

Learn about the concept of measurement and its tools to control the manufacturing process parameters to maintain required precision. Use a variety of measuring tools and instruments to calculate tolerances with respect to material temperature change. Precision and non-precision measurements, calibration, and metric/imperial units will be part of this course.

AMET 120-3 (BC=3)**(3-0-0) 15 weeks****Statics**

Study the cornerstones of engineering design: forces, loads and resulting stresses. Learn how to establish free body diagrams, calculate moments and stresses and study vector mathematics, centroid, distributed loads, strains, safety factor and Hook's law.

Prerequisite: GET 110

AMET 125-3 (BC=3)**(3-0-1.5) 15 weeks****Materials Science**

Gain an understanding of the effects of physical and chemical influences on the properties of solid materials. Study and investigate mechanical, thermal, electrical and magnetic behaviors. Destructive and nondestructive testing will be covered in detail.

Prerequisite: AMET 100

AMET 130-2 (BC=2)**(2-0-1) 15 weeks****Fluid Mechanics**

Study fluid statics, pressure types and units, manometry laws, similarity and dimensional analysis as well as Bernoulli's equation, laminar and turbulent flow, Reynolds number, buoyance, energy loss and pump design, forces on gates, momentum and energy equations, and pressure measurement.

Prerequisite: GET 110

AMET 135-3 (BC=3)**(3-0-0) 15 weeks****Thermodynamics**

Examine the first and second laws of thermodynamics and applications and the mutual effects between temperature, pressure and volume and learn about the most common thermodynamics properties, heat transfer and heat losses in building as well as the application of heat transfer (heat pumps, heat engine, and refrigeration cycles).

Prerequisite: GET 110

AMET 140-2 (BC=2)**(2-1-1.5) 15 weeks****Computer Aided Design**

Use knowledge from the Engineering Drafting course to utilize AutoCAD software. Use drawing tools, multiple views, sectioning, common drafting conventions, tolerances, library commands and symbols and 3D modelling. Design and create 3D objects and simulate manufacturing processes to identify irregularities or conflicts in the machining process.

Prerequisite: AMET 105

AMET 145-2 (BC=2)**(2-1-1) 15 weeks
Manufacturing I**

Learn basic manufacturing operations, standard machine tools, blueprint reading and industrial safety practices. Experience the manufacturing environment and the application of layout tools, hand tools and measuring tools. Iron steel making and related processes, welding methods and techniques and different types of welding machines, joints and rods will be explored. Not eligible for Prior Learning & Recognition

AMET 200-3 (BC=3)**(3-0-1.5) 15 weeks****Fundamentals of FMEA**

Gain the knowledge and tools needed to conduct an engineering investigation to assess potential sources, causes and solutions for failure prevention. Study the fundamentals of failure mode and effects analysis, failure analysis of mechanical systems, evidence collection and handling and development of failure hypotheses and the fundamentals of root cause analysis. Prerequisite: AMET 125

AMET 205-2.5 (BC=3)**(2.5-0-1) 15 weeks****Dynamics**

Learn the mechanical principles of motion and forces of dynamic systems. Study the kinematics and kinetics of objects in translation and rotation, the effect of acceleration on motion, in addition to conservation of energy principles and applications.

Prerequisites: AMET 120; GET 115

AMET 210-2 (BC=2)**(2-0-0) 15 weeks****Building Systems**

Design heating, ventilation and air conditioning systems. Learn about the equipment and instruments used in HVAC and learn how to calculate thermal loads and identify heat losses. Gain the tools and skills needed to interpret HVAC drawings, specifications and codes.

Prerequisite: AMET 135

AMET 215-3 (BC=3)**(3-0-1.5) 15 weeks****Pneumatics and Hydraulics**

Learn about the concept and design of power circuits. Learn about the components of power systems and how these components function and interact within the system. Simulation and practical trouble shooting of circuits will be explored. Prerequisite: AMET 130

AMET 220-3 (BC=3)**(3-0-0) 15 weeks****Strength of Materials**

Review the basic concepts of strengths of materials as well as stress and strain due to various loadings including thermal loading. Topics will include bending, shearing and combination stresses, design of shafts, vessels, and joints, Mohr circle, and beam deflection.

Prerequisite: AMET 120

AMET 225-3 (BC=3)**(3-0-1) 15 weeks****Tool and Fixture Design**

Learn and apply the concept of cutting tool design, work-holder standards, work-piece clamping design for manufacturing process, selection of tooling materials and safe tool handling practices.

Prerequisite: AMET 245 and AMET 140

AMET 230-3 (BC=3)**(3-0-1) 15 weeks****Robotics**

Study the basics of robot applications, types and programming including robot classifications, applications, manipulators and end effectors, drive systems, payload, repeatability and accuracy, object detection, programming, safety and communications. Work with industrial robots and program them to carry out basic functional tasks.

Prerequisite: GET 125

AMET 235-3 (BC=3)**(3-0-1) 15 weeks****CIM**

Computer Integrated Manufacturing (CIM) applies computers to manufacturing, covering topics such as manual NC programming-G codes, computer vision; coordinate measuring machines (CMM), industrial robots in CIM cells, materials handling systems, group technology, Programmable Logic Controllers and future trends in CIM.

Prerequisite: GET 125

Corequisite: AMET 250

AMET 240-3 (BC=3)**(3-0-1) 15 weeks****CNC Manufacturing**

Learn about CNC machining processes and programming. Learn to select the machine tool suitable to the required process, set up correct parameters, understand the critical path of the machining process, and carry out the applications of simulation on industrial CNC machines.

Prerequisite: AMET 140 and AMET 245

AMET 245-3 (BC=3)**(3-0-1.5) 15 weeks****Manufacturing II**

Gain an understanding of machining technologies and basic fundamentals of metal removal operations, joining, casting, welding, grinding, forming, laser processes, chemical etching, and drilling. Operate and machine actual metal parts on lathe and milling machines.

Prerequisite: AMET 145

Not eligible for Prior Learning and Recognition

AMET 246-2 (BC=2)**(2-1-1) 15 weeks****Manufacturing III**

Study manufacturing processes of non-metallic products such as polymers. Other topics covered will be product life cycle and product design for cost effective manufacturing and assembly. A portion of this course will include field trips to local industry to explore new technologies and efficient practices.

Prerequisite: AMET 245

AMET 250-3 (BC=3)**(3-0-0) 15 weeks****Control Systems**

Examine the principles and practices used in the design and application of common industrial process control components and systems as well as the modeling of physical systems, stability, Routh criteria, Root-locus technique and design of control systems.

Prerequisite: GET 115

Corequisite: AMET 235

AMET 255-1 (BC=1)**(1-0-0) 15 weeks****AMET Capstone Project I**

Research and compile a technical report on a topic which reflects the working knowledge of an AMET graduate. Apply concepts from the first year of the program to document, design and create an object. Prerequisite: Completion of all first year courses or permission of the department. Not eligible for Prior Learning and Recognition

AMET 256-3 (BC=3)**(3-0-0) 15 weeks****AMET Capstone Project II**

Continue to develop your proposal from Capstone Project 1 by researching and modifying the project incorporating manufacturability obstacles and unanticipated costs. Students are expected to have a tangible product at the end of this course. Presentation of each project is required by the end of the semester.

Prerequisite: AMET 255
Not eligible for Prior Learning and Recognition

AMET 260-2 (BC=2)
(2-1-1) 15 weeks

Manufacturing Automation

Install, configure, program, and interface a variety of hardware and software in a manufacturing environment. Use Human Machine Interfaces (HMI) and Supervisory Control and Data Acquisition (SCADA) systems to communicate with Programmable Logic Controllers (PLC) and other devices to monitor and control equipment and processes.

Automotive Service

EMP 101-4 (BC=4)
(60 class hours)

Employment & Communications I

Introduction to written and oral communication skills with emphasis on business style correspondence. Course also includes WHMIS, Standard First Aid and CPR Certifications.

EMP 102-1 (BC=1)
(15 class hours)

Employment & Communications II

Further practice in written and oral communication skills with emphasis on problem solving, interview skills and resume writing.

Prerequisite: EMP 101

AUTO 101-2 (BC=2)
(20 class hours, 10 lab hours)

Tools and Safety

Knowledge and skills required to identify and safely use basic hand tools, common power tools, measuring tools and fastening devices.

AUTO 102-5 (BC=5)
(50 class hours, 40 lab hours)

Brakes

Knowledge and skills required to diagnose and repair master and wheel cylinders, disc brakes, drum brakes, brake valves, park brakes and power brakes.

Pre or Co-requisite: AUTO 101

AUTO 103-3 (BC=3)
(45 class hours, 15 lab hours)

Electrical I

Obtain basic electrical knowledge and develop skills required to diagnose and repair automotive electrical systems.

Pre or Co-requisite: AUTO 101

AUTO 104-1 (BC=1)
(6 class hours, 12 lab hours)

Welding

Safe use of oxyacetylene and MIG equipment. Acquire basic knowledge and skills for safe use of gas heating and cutting and MIG equipment.

Pre or Co-requisite: AUTO 101

AUTO 105-1 (BC=1)
(20 class hours)

Powertrains and Drivelines

Knowledge and skills required to diagnose and repair clutches, driveshafts, universal joints and constant velocity joints.

Pre or Co-requisite: AUTO 101

AUTO 106-1 (BC=1)
(15 class hours, 10 lab hours)

Basic Transmissions

An overview of manual transmission operation and diagnosis, along with automatic transmission service.

Pre or Co-requisite: AUTO 101

AUTO 107-4 (BC=4)
(45 class hours, 25 lab hours)

Steering and Suspension

Acquire knowledge and develop skills to service and repair steering linkages, suspension systems, wheels, hubs and tires, hydraulic and electric assist steering gears.

Prerequisites: AUTO 101

AUTO 108-5 (BC=5)
(45 class hours, 45 lab hours)

Wheel Alignment

Complements the steering and suspension course. Learn steering angles, alignment procedures, diagnosis and steering column construction. Use state of the art wheel alignment equipment.

Pre or Co-requisite: AUTO 101

AUTO 109-5 (BC=5)
(45 class hours, 35 lab hours)

Engine Fundamentals

An overview of basic engine construction and systems, including diagnosis and repair of common failures.

Prerequisite: AUTO 101

AUTO 110-2 (BC=2)
(30 class hours, 15 lab hours)

Electrical II

To obtain further knowledge of electrical circuit diagnostics and an overview of automotive computer systems.

Prerequisite: AUTO 103

AUTO 180-1 (BC=1)
(40 practicum hours)

Practicum I

Provides the student an opportunity to work in a shop setting and job shadow a journeyman technician.

Pre or Co-requisite: AUTO 101

AUTO 181-2 (BC=2)
(85 practicum hours)

Practicum II

The student will be job shadowing and applying skills he or she has learned in the Automotive Service Program in a shop setting.

Prerequisite: AUTO 180

Biochemistry

BIOC 301-3 (BC=3)
(3-0-0) 15 weeks

Introductory Biochemistry

An introduction to the fundamental principles of biochemistry. Protein structure and function; lipids and the structure of biological membranes; nucleotides and the structure of nucleic acids; bioenergetics and the metabolism of carbohydrates, lipids, and nitrogen; the integration and regulation of cellular metabolism.

Prerequisites: CHEM 211 and 251 or CHEM 351

Restrictions: Students may only transfer BIOC 301 or BIOC 393 for credit.

BIOC 393-3 (BC=4)
(3-0-3) 15 weeks

Introduction to Biochemical Molecules

This is essentially the same course as BIOC 301 but has a laboratory.

Prerequisites: CHEM 211 and 251 or CHEM 351

Restrictions: Students may only transfer BIOC 301 or BIOC 393 for credit.

BIOC 430-3 (BC=3)
(3-0-0) 15 weeks

Nucleic Acids and Molecular Biology

This course is intended to provide students with a comprehensive introduction to the biochemistry of nucleic acids. It covers: the structure and properties of nucleotides and nucleic acids; DNA based information technologies; genes and chromosome structure; molecular mechanisms in DNA replication, repair, and recombination; RNA metabolism; protein synthesis and

targeting; the regulation of gene expression. Prerequisites: BIOC 301, CHEM 212 and 352. Students transferring to the University of Alberta with less than a B- in the prerequisite courses will not receive transfer credit for this course.

Biology

(See also Microbiology, Bacteriology, Botany, Genetics, Physiology, and Zoology.)

Note: Not all courses listed may be offered. Check Course Timetable for availability.

BIOL 075-4 (BC=4) **(4-1) 15 weeks**

Introductory Biology

See "Career and Academic Preparation Courses," page 201.

BIOL 095-6 (BC=6) **(5-2) 15 weeks**

Preparatory Biology

See "Career and Academic Preparation Courses," page 201.

BIOL 201-3 (BC=4) **(3-0-3) 15 weeks**

Concepts in Biology

Brief introduction to the philosophy of biology. Unity and diversity. How structure and function complement each other. Homeostasis. Genetics and evolution. Ecology. Biological basis of behaviour. Relationship between biology and society. Prerequisite: Biology 30

BIOL 209-3 (BC=3) **(3-0-0) 15 weeks**

Towards a Sustainable Society

The emergence of a sustainable worldview involves the emerging of ideas from science, religions, and economics. These ideas are coupled with a movement towards integrating mind, body and spirit for social change. An experiential approach will be employed to explore our understanding and responses to critical world events and trends that impact our survival and well being. Prerequisite: Biology 30 or Science 30 or Social 30 or equivalent

BIOL 217-3 (BC=4) **(3-3) 15 weeks**

Introduction to Cell Biology

An introduction to cellular and molecular biology. Topics include: biological macromolecules; membrane structure and function; cellular structure; bioenergetics and energy flow; respiration and photosynthesis; cell division and the cell cycle; DNA structure and replication; transcription and translation; recombinant DNA and genetic regulation.

Prerequisite: Biology 30 & Chem 30

Note: BIOL 217 and 218 can be taken in either order.

BIOL 218-3 (BC=4) **(3-3) 15 weeks**

Organisms in their Environment

An introduction to how the diverse organisms on this planet have been affected by their environment and how the current environment is the product of the activities of organisms. The course also examines how evolution has operated over long time periods to produce major groups of organisms and how evolutionary origins are reflected in their classification. The principles that underlie our understanding of the major lineages will be discussed using examples from bacteria, fungi, protists, animals, and plants. A description of the involvement of organisms in major ecosystem processes leads to an evaluation of the stability of those systems and of human impact on the processes.

Prerequisite: Biology 30

Note: BIOL 217 and 218 can be taken in either order.

BIOL 301-3 (BC=3) **(3-0-0) 15 weeks**

Eukaryotic Cellular Biology

A structural and functional dissection of a eukaryotic cell. Detection of specific molecules at the ultrastructural level: plasma membrane structure and function: cytoskeleton involvement in intracellular transport, mitosis, and cytokinesis; the endomembrane system, protein targeting, exocytosis and endocytosis; nuclear structure and function: cell cycle control and cancer.

Prerequisites: BIOL 217

Prerequisite or Co-requisite: CHEM 251 or 351.

BIOL 317-3 (BC=4) **(3-3) 15 weeks**

Molecular Genetics and Heredity

The chromosomal and molecular basis for the transmission and function of genes. The construction of genetic and physical maps of genes and genomes. Strategies for the isolation of specific genes. Examples of regulatory mechanisms for the expression of the genetic material in prokaryotes and eukaryotes.

Note: Credit will not be given for BIOL 317 and 297

Prerequisite: BIOL 217

BIOL 318-3 (BC=4) **(3-3) 15 weeks**

Principles of Ecology

Ecology is the scientific study of interactions between organisms and their environment in a hierarchy of levels of organization: individuals, populations, communities, and ecosystems. The course is designed to provide a comprehensive survey of general concepts that can stand alone or serve as preparation for advanced courses in ecology.

Laboratory exercises focus on the scientific method, experimental design, critical thinking and scientific writing.

Prerequisite: BIOL 218

BIOL 399-1.5 (BC=2) **(0-1.5) 15 weeks**

Biology Research Opportunity Program

Development of skills in biological research methods through engagement in discussions of scientific research, supervised participation in a faculty research project and experience of the research environment in the department.

Prerequisites: BIOL 217 or BIOL 218 and approval of the Department.

Botany

BOTA 310-3 (BC=4) **(3-3) 15 weeks**

The Plant Kingdom - Vascular Plants

A comparative survey of vascular plants focusing on their morphology, classification and phylogeny. Emphasis is placed on living plant groups with some paleobotanical evidence presented.

Prerequisite: BIOL 218

Business

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ACCT 305-3 (BC=3) (3-0) 15 weeks

Personal and Corporate Income Tax

Gain a conceptual understanding of the Canadian income tax act affecting corporations, proprietors, and salaried employees. Topics include the computation of income tax, taxable income, taxes payable, corporate distributions, taxation of capital gains, problem solving, and the preparation of corporate and personal income tax returns.

Pre-requisite: Business Administration Diploma, Financial Services Diploma, or Consent of the Department.

BADM 107-2* (BC=2) (3-1) 15 weeks

Computer Skills for Business

BADM 107 is designed to provide students with requisite computing skills to succeed in BADM 207 Advanced Microcomputers. The course consists of three modules; CMPT 071- Introduction to Computers, CMPT 083- Word Processing I, and CMPT 086- Spreadsheet Skills I.

*Non-traditional delivery in course

BADM 110-3 (BC=3) (3-0) 15 weeks

Introduction to Management

A competency based course for managing organizations and people. Competency modules include: planning, organizing, controlling, delegating, meetings, ethics, time and stress management, critical thinking, conflict, negotiating, job re-design, and creative thinking. Case studies and team exercises are used to develop interpersonal and decision-making skills.

BADM 111-3 (BC=4) (3-1) 15 weeks

Introduction to Statistics

The use of statistics and probability in business decision making. Methods of collecting, organizing, interpreting, and presenting data. Measures of central tendency and dispersion. Discrete and continuous probability distributions. Standard normal distribution. Sampling and statistical estimation. Testing hypothesis. Credit will not be granted for both BADM 111 and BUS 306.

BADM 132-3 (BC=3) (3-0) 15 weeks

Introduction to Marketing

The activities involved in the flow of goods and services from the manufacturer to the consumer. A consumer approach to marketing is stressed. Decisions on product, place, promotion, and pricing. Other related marketing topics and how they are used to develop policies and strategies.

BADM 204-3 (BC=3) (3-0) 15 weeks

Interpersonal Skills

Theory and skills of interpersonal relations. Topics include: understanding and improving interpersonal relationships, perception, customer service, negotiation skills, conflict resolution, giving and receiving feedback, presentation skills, coaching and counselling, interviewing skills.

BADM 207-4 (BC=5) (4-1) 15 weeks

Management Information Systems and Technology

The role of information systems, business processes and information technology in managing organizations and solving business problems. The effective use of system and productivity software such as spreadsheets, database applications and presentation tools.

Note: Students who are deficient in the fundamental skills of file management, e-mail or word processing are encouraged to take the computing modules CMPT 071 and/or CMPT 083 or enroll in full courses that include these modules: CMPT 085 or CMPT 261.

Note: Not eligible for challenge.

BADM 232-3 (BC=3) (3-0) 15 weeks

Business Technology

Students will research, use and evaluate a variety of current technologies related to business. Through simulations and projects, the students will gain experience in the setup, operation and issues of modern business technology.

Prerequisite: BADM 207

BADM 233-3 (BC=3) (3-0) 15 weeks

Web Development

This course introduces the students to coding for the web. Students will learn advanced programming in HTML as well as introductory concepts in CGI scripting and XML.

Prerequisite: BADM 207

BADM 234-3 (BC=3) (3-0) 15 weeks

Web Design

Students will learn advanced web design using web authoring tools. Students will be furthering their knowledge of design and web layout by utilizing a variety of multimedia development tools.

Prerequisite: BADM 207

BADM 235-3 (BC=4) (3-1) 15 weeks

Applied Database Development

Expands on the construction of simple database models to those involving more complex designs that deal with the interactions of multiple entities. Focuses on using tools that facilitate the development of user-specific applications on a stable database infrastructure. Complex forms and reports and the usage of scripts using SQL or similar languages will be explored.

Prerequisite: BADM 207

BADM 238-3 (BC=4) (3-1) 15 weeks

Electronic Commerce

The focus will be on the business strategies and procedures necessary to use the Internet to deliver goods and services

Prerequisite: CSYS 100 or BADM 207, or consent of department

BADM 240-3 (BC=3) (3-0) 15 weeks

Personal Selling

The role of selling in the business world. The nature and rewards of selling. Details of the salesperson's job and qualifications. Knowledge and skills needed for successful selling. The sales process. The salesperson's personal, customer, and social responsibilities.

Prerequisite: BADM 132

BADM 241-3 (BC=3) (3-0) 15 weeks

Advertising

Advertising and its role in the Marketing Mix. Advertising and society. The Promotional Mix. Functions of advertising agencies. Creative strategy. Media strategy. Advertising and the law.

Prerequisite: BADM 132

BADM 242-3 (BC=3)**(3-0) 15 weeks****Marketing Research**

Methods of defining problems, collecting data, analysing data, and presenting results for marketing problems. Research methods used in all functions of business. Specific areas of market research, including the use of focus groups. Emphasis is on the marketing function of research.

Prerequisite: BADM 132

BADM 243-3 (BC=3)**(3-0) 15 weeks****Marketing Surveys**

Marketing survey theory and skills. Research project, including designing and administering a questionnaire and tabulating and evaluating the project. Group and individual work.

Prerequisite: BADM 242

BADM 247-3 (BC=3)**(3-0) 15 weeks****Retail Management**

An introduction to retail management. Topics such as location analysis, pricing, advertising and promotions, store layout and design, competition evaluation, and staff management will be discussed.

Prerequisite: BADM 132

BADM 249-3 (BC=3)**(3-0) 15 weeks****Events Management**

Theory and practice of planning, implementing, coordinating, marketing and evaluating various types of events including award ceremonies, convention planning, trade shows, fundraisers, festivals, seminars, and concerts.

Prerequisite: BADM 132 or consent of department.

BADM 251-3 (BC=3)**(3-0) 15 weeks****Entrepreneurship**

This course develops the tools necessary for both future entrepreneurs and those already active in the business community to compete effectively in the world of commerce. Prospective entrepreneurs will learn how to investigate and evaluate business opportunities, and to acquire the skills and knowledge needed to establish new business ventures, as well as, how to meet the organization's social responsibility to its community.

Note: Designed for BADM students.Note: Not open to students in the first year without consent of the department.**BADM 253-3 (BC=3)****(3-0) 15 weeks****Project Management**

Designed to explore the basic elements of project management. This includes planning, scheduling, maintaining progress of the activities that comprise a project. By applying knowledge gained to actual projects, students are able to understand project life cycles, scheduling, planning, control and implementation.

BADM 260-3 (BC=3)**(3-0) 15 weeks****Introduction to Finance**

The role of finance in today's business firms. Cash budgets, financial forecasting and analysis, and sources and uses of funds. Effective management of current assets, working capital, and fixed assets. Capital budgeting and methods of evaluating capital projects, with emphasis on discounted cash flow techniques. Class discussion of relevant case problems.

Prerequisite: ACCT 102/103 or 202.

Note: Designed for second year Business Administration students.**BADM 261-3 (BC=3)****(3-0) 15 weeks****Financial Management**

The firm's optimal capital structure. Short-term, intermediate, and long-term sources of capital funds. Leasing, dividend policy, ledgers, and acquisitions. Class discussion of relevant case problems.

Prerequisite: BADM 260.

BADM 262-3 (BC=3)**(3-0) 15 weeks****Investments**

Practical and theoretical aspects of investing in marketable securities are explored. Stocks, bonds, and other marketable securities, such as exchange traded funds and mutual funds, will be discussed. In particular the risks and returns from investing will be reviewed within the context of various types of securities markets. Various theories in behavioral finance are also discussed.

Prerequisite: ACCT 103 or 202

BADM 270-3 (BC=3)**(3-0) 15 weeks****Business Policy and Strategy**

Integration of learning from other courses in the Business Administration and Financial Services programs and development of strategic thinking. In addition to studying the theory and application of business strategy, students will also run their own companies in a competitive business simulation, analyse the performance of companies and the environment and make presentations to management boards.

Prerequisite: Completion of all first year Business Administration and/or Financial Services diploma courses.

Prerequisite or Co-requisite: BADM 260 or BUS 310

Note: Not eligible for challenge or Advanced Standing**BADM 280-3 (BC=3)****(3-0) 15 weeks****Industrial Relations**

Labour relations and collective bargaining. Labour legislation, negotiating and administering collective agreements, and settling disputes. Concepts, theories, legislation, history, practices, and current trends and issues in the Canadian industrial relations system.

Prerequisite: BADM 281

BADM 281-3 (BC=3)**(3-0) 15 weeks****Human Resource Management**

An introduction to human resource issues for the employee, supervisor, manager, and human resources staff. Planning, recruitment, selection, compensation, performance appraisal, and labour relations issues will be discussed.

Note: Designed for BADM students.Note: Not open to students in the first year without consent of the department.**BADM 285-3 (BC=3)****(3-0) 15 weeks****Introduction to Tax Planning**

Topics covered include corporations, proprietorships, partnerships, taxation of various types of income, and property. The use of tax deferral and tax free structures is reviewed. Self-employment expenses are also covered.

Prerequisite: Completion of first year courses in Business Administration Diploma or Financial Services Diploma or consent of the department.

BADM 290-3 (BC=3)
(3-0) 15 weeks
Work Practicum
 This course provides the student with an opportunity to work in a business setting and apply the skills he/she has learned in the Business Administration Program. Students are required to work at least 90 hours (normally unpaid) during the term. The instructor will assist in finding a suitable work placement.
 Prerequisite: Completion of the 1st year of the Business Administration Program with a minimum GPA of 2.0.

BADM 320-3 (BC=3)
(3-0) 15 weeks
Selected Topics in Management
 Specialized areas of managerial or entrepreneurial concerns, or both. Functional areas of business, including management, marketing, finance, accounting, and human resources. Course offering and specific topics depend on if an instructor is available.

BADM 321-3 (BC=3)
(3-0) 15 weeks
Selected Topics in Management
 Specialized areas of managerial or entrepreneurial concerns, or both. Functional areas of business, including management, marketing, finance, accounting, and human resources. Course offering and specific topics depend on if an instructor is available.

BADM 327-1* (BC=1)
(2-1) 5 weeks
Quantitative Methods Module For Accountants
 Selected Management Science and statistical topics for Accountants. Topics include linear programming, statistical decision theory, time series and index numbers.
 Prerequisite: BUS 306 or BADM 111 or consent of the department.
 *The successful completion of both BADM 327 and BUS 307 will enable students to obtain transfer credit for CGA's Quantitative Methods I.

BUS 201-3 (BC=3)
(3-0) 15 weeks
Introduction to Business
 This course covers the foundations for future courses in the B.Comm. program including accounting, organization behaviour, finance, information systems and marketing. Cases, group projects and a computerized business game may be used.

BUS 303-3 (BC=3)
(3-0) 15 weeks
Introduction to Organizational Behaviour
 An introduction to the factors that influence human behavior in organizations. Topics include perception, personality, values, group behavior, leadership, politics and power. Students will be encouraged to use this information to better understand themselves and how they make choices in organizations.
Note: Not eligible for challenge.

BUS 305-3 (BC=3)
(3-0) 15 weeks
Organization Theory and Analysis
 Organizational structure and processes. Theoretical models used to analyse and manage organizations. The context of organization theory. Problems and use of classical and modern theory. Organization dynamics.
 Prerequisite: BUS 303.

BUS 306-3 (BC=4)
(3-1) 15 weeks
Introduction to Business Statistics I
 The use of statistics and probability in business decision making. Methods of collecting, organizing, interpreting, and presenting data. Measures of central tendency and dispersion. Discrete and continuous probability distributions. Standard normal distribution. Sampling and statistical estimation. Testing hypotheses. Credit will not be granted for both BADM 111 and BUS 306.

BUS 307-3 (BC=4)
(3-1) 15 weeks
Introduction to Business Statistics II
 Statistical techniques used in business decision making, analysis of variances, chi-square distribution, non-parametric tests of hypothesis and multiple regression and correlation analysis.
 Prerequisite: BUS 306 or BADM 111.

BUS 310-3 (BC=3)
(3-0) 15 weeks
Introduction to Finance
 Types of securities and basic methods of valuation. Valuation and selection of physical and intellectual assets. Operation of asset markets and market efficiency. Risk measures and risk reduction methods. Financing policy, including choices between debt and equity financing.
 Prerequisite: BUS 306
 Co-requisite: ACCT 202
Note: It is strongly recommended that student complete ACCT 202 before registering in BUS 310.

BUS 311-3 (BC=3)
(3-0) 15 weeks
Legal Foundations of the Canadian Economy
 Both the private and public sectors of our economy rest on a structure of legal and social institutions. This course looks at the Canadian legal system with emphasis on the social policy behind the rules, rather than on the rules of law themselves. Includes the nature, sources, philosophy, and policy objectives of the law. Selected topics from the field of tort and contract law.

GNEC 1102-3 (BC=3)
(3-0) 15 weeks
Controversies in Science
 Introduction to scientific and mathematical knowledge and their role in society. The scientific method, the role of mathematics and statistics as reasoning tools in the analysis of scientific controversies. Researching, evaluating, and writing about science.

GNEC 1203-3 (BC=3)
(3-0) 15 weeks
Cultural Perspectives on Science
 This course introduces science as a cultural activity with the goal of developing critical thinking and writing skills. Students will learn to be conversant with some of the issues and debates concerning how science, technology, or medicine have shaped and continue to shape beliefs, values, and identities in our world.

GNEC 1301-3 (BC=3)
(3-0) 15 weeks
Globalization
 Gain an understanding of international issues by examining the global spread of ideas, objects, and people. Overview of key political, social, and economic concepts will

offer the opportunity to debate complex ethical questions and consider Canada's place in the world. Discussion of the pros and cons of globalization.

MGMT 410-3 (BC=3)
(3-0) 15 weeks

Global Business Environment

Introduction to the field of international business emphasizing: national economic, political and cultural differences; globalization; international institutions' roles in facilitating international trade and trade agreements; international monetary system; and current trends in international business. Canada's place within the global economy and the challenges Canadian business encounter conducting international business.

Prerequisite: RDC Diploma in Business Administration or Financial Services or consent of the department.

MGMT 420-3 (BC=3)
(3-0) 15 weeks

Operations Management

Identify decision processes and management activities of business operations through forecasting, product and service design, capacity planning, waiting line models, facility location and layout, process selection, design of work systems, linear optimization, quality inspection control, life cycle management, inventory management, aggregate planning, material requirements planning, project operations management and scheduling.

Prerequisite: RDC Diploma in Business Administration or Financial Services and completion of BUS 307 or consent of the department.

MGMT 430-3 (BC=3)
(3-0) 15 weeks

Business Plan Development

Develop a business plan, through examination of the entrepreneurial process from conception through implementation, with a focus on a new venture launch or an expansion of an existing owner-managed business. The business plan will be prepared synthesizing previous learning in marketing, law, finance, accounting and operations.

Prerequisite: RDC Diploma in Business Administration or Financial Services or consent of the department.

MGMT 450-3 (BC=3)
(3-0) 15 weeks

Leadership

Integrate and apply theory to personal practice necessary for leading within various private or public organizations. The nature of, and perspectives on, effective leadership behaviour, participative leadership and followership, power and influence, leading change in organizations, and strategic leadership by executives.

MGMT 460-3 (BC=3)
(3-0) 15 weeks

Change Management

Analyze and integrate theories on how executives effectively identify, guide, and implement strategic changes within an organization. Perspectives on leading employees through transitions and effectively aligning change to an organization's strategic intent.

Prerequisite: RDC Diploma in Business Administration or Financial Services or consent of the Business Administration department.

MGMT 470-3 (BC=3)
(3-0) 15 weeks

Corporate Social Responsibility

The interrelationship of ethical decision-making, corporate social responsibility, corporate integrity, organizational culture, corporate strategy, and organizational management/leadership will be covered. Topics may include: sustainability, corporate governance, ethics in marketing, fair-trade, globalization, and other emerging ideas about the continuing evolution of corporate social responsibility.

Prerequisite: RDC Diploma in Business Administration or Financial Services or consent of the Business Administration department.

MGMT 490-3 (BC=3)
(3-0) 15 weeks

Strategic Management

Develop conceptual and applied strategic management skills, using a holistic approach. Topics include: analyzing key environmental forces and competitive situation, addressing organizational direction, formulating and implementing strategy, and using an organization's ability to leverage its unique core competencies.

Prerequisite: RDC Diploma in Business Administration or Financial Services or consent of the Business Administration department. This course is normally taken in the final semester of the BBA program.

Carpentry and Construction

EMP 101-4 (BC=4)
(60 class hours)

Employment & Communications I

Introduction to written and oral communication skills with emphasis on business style correspondence. Course also includes WHMIS, Standard First Aid and CPR Certifications.

EMP 102-1 (BC=1)
(15 class hours)

Employment & Communications II

Further practice in written and oral communication skills with emphasis on problem solving, interview skills and resume writing.

Prerequisite: EMP 101

CARP 100-5 (BC=5)
(60 class hours, 45 lab hours)

Carpentry Trade Introduction

Knowledge of the Carpentry trade, materials for construction, hand tools, machines and power tools for further application.

CARP 103-3 (BC=3)
(30 class hours, 45 lab hours)

Blueprints I

Introduction to drawings and drawing instruments. Knowledge and skills to produce orthographic drawings, isometric drawings and free hand sketches. Also includes introduction to blueprint interpretation.

CARP 104-3 (BC=3)
(30 class hours, 45 lab hours)

Blueprints II

Knowledge and skills to read and interpret residential blueprints, light commercial blueprints and be able to produce shop drawings and sketches from blueprints.

Prerequisite: CARP 103

CARP 105-3 (BC=3)
(45 class hours)

Trade Mathematics I

Knowledge and skills using basic math concepts complemented with problem solving related to the Carpentry trade.

CARP 106-3 (BC=3)
(45 class hours)

Trade Mathematics II

The ability to interpret blueprints and basic math come together at this point to be able

COURSE DESCRIPTIONS

to calculate perimeter, area and volume measurements of materials for a specific project.

Prerequisite: CARP 105

CARP 107-2 (BC=2) **(15 class hours, 45 lab hours)**

Carpentry Projects

This course offers the opportunity to apply the theory from the classroom to a variety of projects. Designed to improve hand skills in a safe environment.

CARP 108-2 (BC=2) **(15 class hours, 45 lab hours)**

Carpentry Projects II

Once successful in CARP 107 students will use the skills learned to complete more complex projects focusing on quality, safety and organization. Projects will include hands on experience with layout and assembly of concrete forming, floor, wall and roof framing.

Prerequisites: CARP 100, 103, 105 & 107

CARP 110-4 (BC=4) **(45 class hours, 45 lab hours)**

Building Procedures

Knowledge and skills required for the construction aspects of residential and light commercial building projects. This includes building layout, excavation, concrete forming and the framed structure.

CARP 120-3 (BC=3) **(45 class hours)**

Construction Safety I

Introduction to construction safety and also including WHMIS, Standard First Aid, CPR Certification and Explosive Actuated Tools.

CARP 121-2 (BC=2) **(30 class hours)**

Construction Safety II

Knowledge and skills required for safe operation of explosive activated tools, hand tools and powered tools. Includes knowledge and understanding of safe rigging procedures and construction safety training.

Prerequisite: CARP 120

CARP 180-1 (BC=1) **(40 practicum hours)**

Carpentry Practicum I

Applied knowledge provides the opportunity for continued learning in the Carpentry trade.

CARP 181-2 (BC=2) **(80 practicum hours)**

Carpentry Practicum II

Applied knowledge provides the opportunity for advancement in the Carpentry trade.

Prerequisite: CARP 180

Chemistry

Note: You must have a lab coat and safety glasses to take part in chemistry labs. You can buy these items at the College Bookstore. Please note that contact lenses are not permitted in the labs.

Note: Not all courses listed may be offered. Check Course Timetable for availability.

CHEM 075-4 (BC=4) **(4-1) 15 weeks**

Introductory Chemistry

See "Career and Academic Preparation Courses," page 202

CHEM 095-6 (BC=6) **(4-1S-2) 15 weeks**

Preparatory Chemistry

See "Career and Academic Preparation Courses," page 202

CHEM 203-3 (BC=4) **(3-1S-3/2) 15 weeks**

Introductory University Chemistry I

Stoichiometry, ideal gases, atomic structure and bonding, thermochemistry, chemical equilibrium, acids and bases, buffers, titrations.

Prerequisite: Chem 30 or equivalent, Math 30-1

Co-requisite: MATH 202 (203 or 212).

Note: For Engineering students.

CHEM 205-3 (BC=4) **(3-1S-3/2) 15 weeks**

Introductory University Chemistry II

Titration curves, solubility and complex ion equilibria, entropy and Gibbs energy, chemical kinetics, electrochemistry, bonding and structure.

Prerequisite: CHEM 203

Co-requisite: MATH 204 or 213.

CHEM 211-3 (BC=4) **(3-1S-3) 15 weeks**

Introductory University Chemistry I

Stoichiometry, ideal gases, atomic structure and bonding, thermochemistry, chemical equilibrium, acids and bases, buffers, titrations.

Prerequisite: Chem 30, Math 30-1

CHEM 212-3 (BC=4) **(3-1S-3) 15 weeks**

Introductory University Chemistry II

Titration curves, solubility and complex ion equilibria, entropy and Gibbs energy, chemical kinetics, electrochemistry, bonding and structure.

Prerequisite: CHEM 211

CHEM 241-3 (BC=4) **(3-0-3) 15 weeks**

Introductory Bio-Organic Chemistry

Structures, bonding, functional groups, reactivity, properties, synthesis, biological chemistry, natural occurrence, and uses of hydrocarbons, alcohols, phenols, sulfur and halogen compounds, carbonyl compounds, amines, and carbohydrates.

Prerequisite: Chemistry 30 (minimum 75% strongly recommended).

Note: You can only get credit for one of CHEM 241, 251, and 351

CHEM 251-3 (BC=4) **(3-1S-3) 15 weeks**

Introductory Organic Chemistry I

An introduction to the chemistry of carbon compounds. Nomenclature, physical properties, stereochemistry and reactions of hydrocarbons, alcohols, thiols, alkyl halides, ethers and epoxides. Use of organic molecules in industry and biology.

Prerequisite: Chem 30

Note: Students normally take CHEM 251 after receiving credit in CHEM 211, although CHEM 211 is not a prerequisite. CHEM 352 is a continuation of CHEM 251. You can only get credit for one of CHEM 241 and 251.

Note: This course is restricted to pre-pharmacy students or departmental approval. You will only receive credit for one of CHEM 241, CHEM 251 and CHEM 351.

CHEM 291-3 (BC=3) **(3-0) 15 weeks**

Applying Chemistry to Society and the Environment: A Gentle Introduction for Non-Science Majors

Topics will include the chemistry of global warming, depletion of the ozone layer, air and water pollution, alternative fuels, nuclear fission and fusion, nutritional chemistry, illegal drugs and pharmaceuticals, polymers and plastics, superconductors and semiconductors, metal refinement and corrosion, etc..

Prerequisite: Science 30 or equivalent

Note: B.Sc. students cannot take this course for credit.

CHEM 311-3 (BC=4)**(3-0-4) 15 weeks****Quantitative Analysis I**

Principles, methods, and experimental applications. Solution I equilibria, titrimetry, volumetric laboratory skills and evaluating experimental data are emphasized. Examples of organic and inorganic analysis.

Prerequisite: CHEM 212

CHEM 313-3 (BC=4)**(3-0-4) 15 weeks****Quantitative Analysis II**

CHEM 311 continued. Principles, methods and experimental applications of separation techniques, atomic and molecular spectrometry, electrochemistry, and evaluation of experimental data. Examples of organic and inorganic analysis. Use of analytical literature.

Prerequisite: CHEM 311

CHEM 351-3 (BC=4)**(3-1S-3) 15 weeks****Organic Chemistry I**

An introduction to the chemistry of carbon compounds. The molecular structure, nomenclature, reactions, reaction mechanisms and stereochemistry of hydrocarbons, and some functional groups including haloalkanes, alcohols, thiols, ethers and epoxides. Important organic compounds related to industry, agriculture and everyday use are introduced.

Prerequisites: CHEM 203 or CHEM 211

Note: You can only get credit for one of CHEM 241, CHEM 251 and CHEM 351.

CHEM 352-3 (BC=4)**(3-1S-3) 15 weeks****Organic Chemistry II**

This course is a continuation of CHEM 251 or CHEM 351. Nomenclature, physical properties, stereochemistry, synthesis, and reaction of aldehydes, ketones, carboxylic acids and derivatives, carbohydrates, amino acids, proteins and amines. Chemistry of biomolecules. Use of spectroscopic tools. Industrial, environmental and biological implications.

Prerequisite: CHEM 251 or CHEM 351

CHEM 370-6 (BC=8)**(3-3) 30 weeks****Elementary Physical Chemistry**

Gas laws. The laws of thermodynamics. Calorimetry. Phase equilibria, chemical equilibria, and solution theory. Electrochemistry. Kinetic molecular theory. Chemical kinetics. Catalysis.

Prerequisites: CHEM 212 or equivalent, MATH 204 or equivalent.

Classics

CLAS 209-3 (BC=3)**(3-0) 15 weeks****Early World History I**For description, see under **HISTORY** courses**CLAS 320-3 (BC=3)****(3-0) 15 weeks****Roman History**For description, see under **HISTORY** courses

Career and Academic Preparation Courses

See page 200.

Communications

Some Communications Studies courses are available through alternate delivery. Correspondence versions of COMM 150 and COMM 254 are available for students in distance delivery programs. On-line versions of COMM 140, COMM 250, COMM 252 and COMM 254 are available for students who have Internet access and who need an alternative to on-campus classes.

Note: Alternate delivery is not available for all courses every year. To enroll in an alternate delivery section, please check the Timetable and select a course designated as "correspondence" or "on-line".

Placement Criteria

Students should refer to their program requirements before selecting a Communications course. Students are advised that they will be required to take the College placement test before registering in COMM 250, 252, 254 or 256. Students who obtain 60% or greater in ELA 30-1 will be exempted from this test. Students who do not achieve a satisfactory mark on this test will be required to complete COMM 150 before entering COMM 250, 252, 254 or 256. As taking COMM 150 may affect timetables established by individual programs, students are strongly advised to take the placement test early in case the preparatory course (COMM 150) is required. Phone the Assessment and Test Centre at 342-3292 to arrange to take the placement test.

Course Equivalencies

For program completion requirements at RDC, COMM 250, 252, 254, and 256 are equivalent to each other. These courses, though equivalent at RDC, may not transfer to other institutions in the same way. Please see an academic advisor for more information on specific transferability of all COMM courses.

COMM 140-3 (BC=3)**(3-0) 15 weeks****Fundamentals of Workplace Communications**

Introduction to written and oral communications with an emphasis on grammar, basic sentence structure, short business correspondence, and an introduction to effective oral communication, with the public, in the workplace.

COMM 140 is not accepted as a prerequisite for COMM 200 level courses.

COMM 141-1 (BC=1)**(0-2) 10 weeks****Fundamentals of Workplace Communications (Lab)**

Further exercises and practice in effective oral communication, based on concepts introduced in COMM 140. Emphasis on nonverbal communication, interpersonal skills, conflict resolution, and oral presentations.

COMM 150-3 (BC=3)**(3-0) 15 weeks****Fundamentals of College and Workplace Writing**

Practice in fundamental writing skills with an emphasis on grammar, basic business correspondence, and short reports for business or college.

COMM 150 is accepted as a prerequisite for COMM 200 level courses.

COMM 191-3 (BC=3)**(3-0) 15 weeks****Oral Communications**

Theory and practice in interpersonal communications for the workplace. Students will consider such issues as perception, listening, non-verbal communications, conflict resolution, self-disclosure, and the nature of groups while developing skills related to interviewing, participating in meetings, working effectively with a team, and informative and persuasive public speaking.

Note: Not eligible for challenge.

COMM 250-3 (BC=3)
(3-0) 15 weeks
Business and Workplace Writing
 Theory and practice in composition to prepare students for academic and professional work in business and office environments. Emphasis will be on mechanics, style, tone and organization of communications including research reports, memos, letters, business proposals and resumes.
 Prerequisite: Placement criteria must be met (see above).

COMM 252-3 (BC=3)
(3-0) 15 weeks
Technical and Scientific Writing
 Theory and practice in composition to prepare students for academic and professional work in scientific and technological fields. Emphasis will be on mechanics, style, tone and organization of communications including abstracts, reports, research projects, letters and resumes.
 Prerequisite: Placement criteria must be met (see above).

COMM 254-3 (BC=3)
(3-0) 15 weeks
Human Services Writing
 Theory and practice in composition to prepare students for academic and professional work in human services. Emphasis on the effective use of mechanics, style, tone and organization of communications. Applications include critical reading, objective observation, secondary research, and collaborative writing.
 Prerequisite: Placement criteria must be met (see above).

COMM 256-3 (BC=3)
(3-0) 15 weeks
Writing Skills for the Fine Arts
 Theory and practice in composition to prepare students for academic and professional work in the cultural arts. Students will analyze and interpret texts as well as produce clear, well-structured, and mechanically sound compositions.
 Prerequisite: Placement criteria must be met (see above).

COMM 271-3 (BC=3)
(3-0) 15 weeks
Introduction to Communications Studies
 This course provides an overview of the development and key theoretical areas within the field of Communications Studies, with focus on how communication can serve as an agent of social and cultural change.

Major topics to be studied include language, rhetoric, mass media, cultural studies, interpersonal and oral communication, and organizational communication.
 Prerequisite: ELA 30-1.

COMM 294-3 (BC=3)
(3-0) 15 weeks
Group Communication
 Theory and practice of communication in small groups. Interpersonal communication, group dynamics, meetings, making decisions, solving problems, resolving conflict, leadership, and team building.
Note: Not eligible for challenge.

COMM 341-3 (BC=3)
(3-0) 16 weeks
New Media, Technology, and Society
 A study of the implications of information technology for political, social and economic organization, individual psychology, and concepts of knowledge. Historical, ethical and legal implications will be discussed.
Note: This course assumes only very basic familiarity with computers at the “user” level. Familiarization with more advanced applications will be provided as required.
 Prerequisite: ELA 30-1 or equivalent

COMM 351-3 (BC=3)
(3-0) 15 weeks
Visual Culture
 Students in this course will examine contemporary western visual culture, as it is constituted by visual modes of communication. Through analysis of images in art, print advertising, documentary photography, and a range of television, video, and film genres, students will investigate the relation of cultural practices, ideologies and institutions to the production and reception of visual messages.
 Prerequisite: ELA 30-1 or equivalent.

COMM 361-3 (BC=3)
(3-0) 15 weeks
Communicating Through Speech and Writing
 This course focuses on helping students communicate more effectively through their writing and speaking. Students will examine classical and contemporary rhetoric to gain an appreciation of the history and theory of the rhetorical tradition. Students will also put theory into practice through construction of essays and speeches.
 Prerequisite: ELA 30-1
Note: Students cannot receive credit for both COMM 361 & COMM 369

COMM 369-3 (BC=3)
(3-0) 15 weeks
Classical Persuasion
 Understand how the ideas of Aristotle and other theorists apply to your work and the media by learning effective persuasion, audience and situational analysis, rhetorical theory, and ethics. Discuss current events; apply classic techniques to improve written and oral arguments; and, critically evaluate texts like news articles, videos, and essays.
 Prerequisite or Co-Requisite: COMM 271
Note: Students cannot receive credit for both COMM 361 & COMM 369

COMM 371-3 (BC=3)
(3-0) 15 weeks
Critical Media Studies
 Analyze everyday media like advertising, television, film, videogames, and magazines. Use interpretative tools such as psychoanalysis, Marxism, gender and queer theory to learn how media change our lives, what makes a book or TV show a success, what forces affect the images surrounding us, and what makes Canadian media unique.
 Prerequisite: COMM 271
Note: Students cannot receive credit for both COMM 351 and COMM 371 at RDC

COMM 375-3 (BC=1)
(3-0) 15 weeks
Mass Communication in Canada
 This course examines the role of mass media in Canadian society. We will examine communications media including television, newspapers, magazines, film, books, and new technologies. The course will focus on areas such as the historical development, policies, financial issues, and audience reception of the various media in Canada. Special attention will be given throughout the course on the role of Canadian mass media in a global context, particularly in relation to the United States.
 Prerequisite: ELA 30-1

COMM 381-3 (BC=3)
(3-0) 15 weeks
History of Communication
 This course provides an overview of the development of major systems of communication throughout history, in conjunction with the historical and social contexts in which these developments took place and have shifted over time. Focus will be given both to technological advancements and a theoretical understanding of how these advancements have shaped and reflected both society and individuals. A variety of theoretical perspectives on the role of communication in history will be considered.
 Prerequisite: ELA 30-1

COMM 383-3 (BC=3)
(3-0) 15 weeks**Introduction to Public Relations**

This course provides an introduction to the theory and practice of Public Relations, with special focus on the Canadian context of public relations. The course will overview the history and development of public relations, the various professional roles and occupations in public relations, and key theories of public relations. Practical applications will include preparation of public relations texts such as press releases, backgrounders, press kits, PR plans and speeches.

Prerequisite: ELA 30-1 or equivalent

Computing Science

Note: Not all courses listed may be offered. Check Course Timetable for availability.

CMPT 072-1 (BC=1)**Keyboarding I**

An introduction to touch keyboarding through the use of a computerized package. A minimum of 20 net words per minute (five errors maximum) is required upon completion. Keyboarding is required as a prerequisite skill for all further RDC computer modules.

Exemptions - CTS INF1020 or prior learning recognition.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 073-1 (BC=1)**Intermediate Keyboarding II**

Development of keyboarding skills for those students with a non-clerical career orientation. The emphasis will be on the continued development of speed and accuracy in typing skills.

Prerequisites: CMPT 072 or CTS INF1020

Exemptions: CTS INF2040 or recognized prior learning experience.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 076-1 (BC=1)**Presentation/Publishing Software**

This module provides self-paced and directed instruction for introductory level skills in presentation and desktop publishing software. Skills to develop presentations in MS PowerPoint and brochures, letterhead or business cards in Publisher will be covered.

Prerequisites: CMPT 083/CTS INF 2050

Exemptions: CTS INF2060 or recognized prior learning experience.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 083-1 (BC=1)**Word Processing I**

This module provides instruction for the efficient use of practical word processing skills required to produce a report containing a title page, a bibliography, headers, and page numbering according to a style guide. Use of editing, formatting, and correcting features are required. Choice of working with MSWord or Corel WordPerfect; however, other word processing applications are acceptable for prior learning recognition.

Prerequisites: CMPT 072 or CTS INF1020.

Exemptions: CTS INF2050 or recognized prior learning experience.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 085-4 (BC=4)**(3-2) 15 weeks****Introduction to Personal Computers**

This is a self-directed course covering an introduction to computers, together with word processing, spreadsheet and keyboarding applications. This course will provide students with a basic level of computer literacy.

*The course is designed as a self-directed course but a mandatory seminar is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: None

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

CMPT 086-1 (BC=1)**Spreadsheet Skills 1**

This module provides instruction for the efficient use of practical spreadsheet skills required to create a formatted worksheet with mathematical formulas. Use of relative, absolute and mixed cell referencing, of functions, and of graphing tools is required. Excel will be used for this module, however other spreadsheet applications are acceptable for prior learning recognition. Recommended Prerequisite: CMPT 083 or CTS INF2050

Exemptions: CTS INF2080 or recognized prior learning experience.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 090-4 (BC=4)***(3-2) 15 weeks****Information Processing Using Microcomputers**

This is a self-directed course covering research skills, together with word processing, spreadsheet and database applications. This course will provide students with an intermediate level of computer literacy.

*The course is designed as a self-directed course but a mandatory seminary is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: CMPT 085 **OR** CTS INF1020, CTS INF2050 and CTS INF2080 **OR** CMPT 072, CMPT 083 and CMPT 086.

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

CMPT 092-1 (BC=1)**Word Processing Skills II**

This module provides self-paced and directed instruction for intermediate level word processing. Merging documents, enhancing the visual display of text, macros and templates will be covered. MSWord will be used for this module; however, other word processing applications are acceptable for prior learning recognition.

Prerequisites: CMPT 083/CTS INF2050

Exemptions: CTS INF 3060 or recognized prior learning experience.

Note: All relevant CTS modules must have been completed within the past two years.

Note: A minimum grade of 70% in all CTS modules is required.

CMPT 096-3 (BC=3)**(2-2) 15 weeks****Introduction to Programming**

Introduction to the essential elements of programming including control structures and introductory data structures using the "C++" language.

Note: Any student considering entering Computer Systems Technology should enrol in this course and CMPT 090 if necessary prerequisites are missing.

High School Equivalent: Elementary Programming.

COURSE DESCRIPTIONS

Prerequisite: CMPT 085, consent of Department or demonstrated competence in keyboarding, word processing, spreadsheets, and file management through assessment testing.

CMPT 110-2* (BC=2)

(1-3) 15 weeks

Introductory Computing

Computing theory and application software. CPU and system architecture. Input/output devices. Secondary storage media. Communications. Operating systems. AD converters. Binary theory. Other topics. Lab work focuses on computing solutions to industry-related problems. Statistical analysis of experimental data using DOS. Word processing, spreadsheet and database techniques, and spreadsheet design. Macro programming, data parsing, mathematical functions, and graphing solutions. Strong working knowledge of DOS. Statistical topics of linear regression and correlation using the computer.

Prerequisite: Math 30 (Pure) or Math 30 (Applied)

*Non-traditional course delivery

CMPT 170-3* (BC=3)

(3-1.5) 15 weeks

Microcomputer Applications

This is a self-directed course covering an introduction to computers, together with word processing, spreadsheet and educational technologies. This course will provide a basic foundation of computer literacy for the Educational Assistant field.

*The course is designed as a self-directed course but a mandatory seminar is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: None

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

CMPT 201-3 (BC=4)

(3-3) 15 weeks

Programming: A Gentle Introduction to Computing

This course provides an overview of computing science concepts for students with little or no programming background. Topics include: representation of data; machine architecture; operating system concepts; properties of algorithms and computational problems; syntax of a high level procedural programming language; basic data types and control structures. Students do introductory programming for

a portion of the course. Intended for students with no computing experience.

Note: U of A will not grant credit for this course if credit was first obtained in CMPT 214 or equivalent.

CMPT 214-3 (BC=4)

(3-3) 15 weeks

Introduction to Computing Science

Computer architecture, operations and data storage. Machine language and assembler programming. Scientific applications and systems programming in C++. Functions parameter passing and recursion. The programming will progress from the structured perspective to the object oriented paradigm.

Prerequisite: Math 30 (Pure)

Co-requisite: MATH 202 or 203

CMPT 215-3 (BC=4)

(3-3) 15 weeks

Elementary Data Structures

Using a high level language to present and manipulate data structures. Strings, arrays, and linked lists. Stacks, queues, and trees. Uses of data structures.

Prerequisite: CMPT 214 or 351 and consent of the Department.

CMPT 261-3* (BC=4)

(3-0-3) 15 weeks

Introduction to Computing

This is a self-directed course covering an introduction to computers, research skills and computer theory, together with word processing and spreadsheet applications. This course will provide a comprehensive foundation of computer literacy in support of university-level study.

*The course is designed as a self-directed course but a mandatory seminar is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: None

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

CMPT 262-3 (BC=4)

(3-0-3) 15 weeks

Introduction to Structured Programming

CMPT 261 continued, using a high level language on a personal computer. Program control. Functions and subprograms. Arrays. Manipulating strings. Sequential and random access files. Buttons, windows, dialogue boxes, and menus. Designing user-friendly programs. Non-numerical applications are stressed.

Prerequisite: CMPT 261.

Note: Not open to Bachelor of Science students.

CMPT 272-3 (BC=3)

(3-1) 15 weeks

Formal Systems and Logic in Computing Science

Propositional and predicate logic. Boolean algebra and circuit design. Verifying programs and proofs. Formal languages, regular expressions, and finite state machines. Other formal systems useful in Computing Science.

Prerequisite: CMPT 214

Co-requisite: CMPT 215

CMPT 351-3 (BC=4)

(3-3) 15 weeks

Elements of Programming I

Basic programming techniques using a high level language. Representing and manipulating numeric and non-numeric data. Computing systems, history, and uses. (C++ language)

Note: You cannot have credit in both CMPT 214 and 351.

Prerequisite: Math 30 (Pure).

CMPT 360-3 (BC=4)

(3-3) 15 weeks

Introduction to Object-Oriented Programming

Theory and practical application of object-oriented programming. Graphical interfaces. Object-oriented approach to program design and programming techniques, language translators, and virtual machines.

Prerequisite: Consent of the Department

Dance

See listings under "Kinesiology and Sports Studies," page 171.

Drama

DRAM 201-3 (BC=3)

(3-0) 15 weeks

Play Analysis

Understanding drama through critical analysis of plays. Using analysis for creative solutions in play productions.

DRAM 202-3 (BC=3)

(3-0) 15 weeks

Introduction to Theatre Art

The origins and development of theatre art. Introduction to theatre history and theatre aesthetics.

DRAM 203-3 (BC=3)**(3-0) 15 weeks****Introduction to Dramatic Movement**

Releasing, developing, and expanding physical resources basic to movement in acting. Developing body awareness.

DRAM 204-1 (BC=1)**(2-1) 15 weeks****Singing for the Stage**

Developing the voice through choral singing and coaching. Vocal range, technique, and musicality.

Note: Open to Theatre Studies Acting students only.

DRAM 249-3 (BC=3)**(1-5) 15 weeks****Introduction to Dramatic Process**

Improvising speech and movement, with emphasis on imaginative development. The process of acting and dramatic form. Developing communication skills.

Not accepted for credit in the Theatre Studies Program. Not available to students with credit in DRAM 350.

DRAM 301-1 (BC=1)**(0-3)****Production Workshop I**

Student initiated project work involving theatre production or theatre related research.

Note: Open to all students, subject to approval of the Theatre Studies Department.

DRAM 321-3 (BC=3)**(1-3) 15 weeks****Creative Drama**

Use of dramatic technique in a variety of group projects to develop self-expression. This course will serve leaders and teachers at all levels. Former experience in theatre is not required.

DRAM 347-3 (BC=3)**(2-2.5) 15 weeks****Introduction to Oral Communication**

Freeing the natural voice. Developing body awareness related to the voice: breathing, resonance, projection, articulation, and range. Exploring basic techniques of oral communication and interpretation, drawing from various forms of literature.

DRAM 350-3 (BC=4)**(3-3) 15 weeks****Introduction to Acting**

The process of acting and dramatic form through dramatic improvisation. Formerly DRAM 251.

DRAM 353-3 (BC=3)**(1-5) 15 weeks****Scene Study I**

The study of acting, including analyzing and enacting scripted scenes and characterization.

Prerequisite: DRAM 249 or 350 or 321 or consent of the Department.

DRAM 383-3 (BC=4)**(3-3) 15 weeks****Introduction to Directing**

Fundamentals of directing through practical exercises.

Prerequisite: DRAM 353 or THTR 141 and consent of the Department.

DRAM 483-2 (BC=2)**(0-6) 15 weeks****Advanced Directing**

Develop the director's creative use of the elements of directing.

Prerequisite: DRAM 383

Early Learning & Child Care

(These courses are intended for Early Childhood Development students, but can be taken by other students with consent of the Chair). With the exception of practicum courses, all ELCC courses can be taken in any sequence.

ELCC 201-3 (BC=3)**(3-0) 15 weeks****Foundations of Early Learning & Child Care**

The characteristics and roles of Early Childhood professionals in various program settings. Recent positions and issues on "quality" in child care. Routines and transitions. Health, nutrition, and safety information and implications for practice. Anti-bias curriculum.

ELCC 206-3 (BC=3)**(3-0) 15 weeks****Child Development & Exceptionalities**

Physical, cognitive, moral, creative, and social emotional development of children ages five through eight. Attitudes, trends, and issues in providing services to children with special needs. Overview of basic types of exceptionalities.

ELCC 210-4 (BC=4)**(200 hours) Includes 15 hours seminar****Practicum I**

Practical experience with young children in community programs.

Part time students must complete ELCC 210 between the fourth to seventh course. Consent of the chair is required for atypical registration requests.

Note: This course will be evaluated using a credit (pass)/non-credit (fail) grading system.

Note: May be eligible for challenge.

ELCC 211-3 (BC=3)**(3-0) 15 weeks****Child Development**

Exploration of developmental theories. Methods of observing and recording children's behavior. Study of prenatal development. Physical, cognitive, moral, creative, and social emotional development of infants, toddlers, and preschoolers.

ELCC 212-3 (BC=3)**(3-0) 15 weeks****Program Planning I**

Play theories and issues. Understanding the role of play in children's development, and the role of adults in guiding and providing play experiences. Planning for sensory play, art play, and appropriate infant/toddler developmental experiences.

Note: These courses can be taken in any sequence.

ELCC 213-3 (BC=3)**(3-0) 15 weeks****Interpersonal Relations I**

Self understanding and self acceptance as the basis of a professional's ability to understand and value others. Gaining knowledge of self and communication theories and skills.

ELCC 215-3 (BC=3)**(3-0) 15 weeks****Program Planning II**

Understanding dramatic play and emergent literacy development. Planning socio-dramatic experiences. Identifying quality children's literature. Sharing stories with children. Fostering language development in young children.

Note: These courses can be taken in any sequence.

ELCC 217-3 (BC=3)
(3-0) 15 weeks
Guiding Behavior
 Understanding and fostering self-esteem in young children. Practical information on appropriate strategies to help develop children's social-emotional behavior using a "guidance" approach. Establishing partnerships between families and early childhood professionals.

ELCC 218-3 (BC=3)
(3-0) 15 weeks
Program Planning III
 Planning for play (including environments & schedules) and group times. Exploration of physical, construction, block, woodworking, manipulative, and outdoor play. Introduction to music and song.
Note: These courses can be taken in any sequence.

ELCC 220-4 (BC=4)
(200 hours) Includes 15 hours seminar
Practicum II
 Practical experience with young children in community programs, extending the objectives of ELCC 210. Part time students must complete ELCC 220 between the seventh and tenth courses. Consent of the chair is required for atypical registration requests.
 Prerequisite: ELCC 210.
Note: This course will be evaluated using a credit (pass)/non-credit (fail) grading system.
Note: May be eligible for challenge

Year 2
 With the exception of practicum courses, all ELCC courses can be taken in any sequence.

ELCC 305-3 (BC=3)
(3-0) 15 weeks
School Age Care
 Child care, developmental needs, and appropriate interactions with children age six through age twelve. Regulations and administration of school age care programs. Providing quality experiences for children in school age programs. Course content presented on-line. This is an option course, and students are required to take one of the three ELCC options provided OR one other option approved by the chair. This course is open to unclassified students.

ELCC 308-3 (BC=3)
(3-0) 15 weeks
Family Support
 The nature of family support work. Early intervention for at-risk families. Strategies and techniques for supporting families. Establishing helping relationships. Content presented on-line. This is an option course and students are required to take one of the three ELCC options provided OR one other option approved by the chair.
 Prerequisite: ELCC 321 recommended. ELCC Certificate or consent of department.

ELCC 309-3 (BC=3)
(3-0) 15 weeks
Aboriginal Children and Families
 Focus on past traditions and contemporary issues facing Aboriginal children, families and communities. Emphasis on deepening knowledge and enhancing skills for education, caring and working in partnership with Aboriginal people. Course content presented on-line. This is an option course and students are required to take one of the three ELCC options provided OR one other option approved by the chair. This course is open to unclassified students.

ELCC 310-5 (BC=5)
(200-250 hours)
Includes 15 hours seminar
Practicum III
 Practical experience with young children in a diverse range of community programs, extending the objectives of first year practicums. Part-time students must complete ELCC 310 between the fourth and seventh courses. Consent of the chair is required for atypical registration requests.
Note: This course will be evaluated using a credit (pass)/non-credit (fail) grading system.
 Prerequisite: ELCC Certificate or consent of department.
Note: May be eligible for challenge.

ELCC 313-3 (BC=3)
(3-0) 15 weeks
Interpersonal Relations II
 Developing skills that will help in relating to others more effectively: self-esteem, conflict resolution, assertiveness, support skills, team skills, etc. Strategies for applying these skills in working with children, families and colleagues.
 Prerequisite: ELCC Certificate or consent of department.

ELCC 314-3 (BC=3)
(3-0) 15 weeks
Children in Society
 Exploration of social, economic, religious, and educational systems and their impact on families in Alberta, Canada, and the world. Social, historical, and theoretical influences on child care. Focus on supporting families, professional advocacy, and on program planning that meets diverse needs.
 Prerequisite: ELCC Certificate or consent of department.

ELCC 315-3 (BC=3)
(3-0) 15 weeks
Program Administration
 Roles and functions of program administrators, coordinators, and home visitors in management and administration, program policies and procedural guidelines, record keeping and information systems, financial management and administration, and staff supports for operating day cares, nursery schools, and family day home programs in Alberta. Course content presented on-line.
 Prerequisite: ELCC Certificate or consent of the department.

ELCC 317-3 (BC=3)
(3-0) 15 weeks
Program Planning V
 Expanding experiences in early childhood art, music, creative dramatics, and group times. Planning appropriate environments and experiences for fostering literacy development.
 Prerequisite: ELCC Certificate or consent of department.
Note: These courses can be taken in any sequence.

ELCC 320-5 (BC=5)
(200-250 hours)
Includes 15 hours seminar
Practicum IV
 Practical experience with young children in a diverse range of community programs, extending the objectives of pre-requisite ELCC 310. Part-time students must complete ELCC 320 between the seventh and tenth courses. Consent of the chair is required for atypical registration requests.
 Prerequisite: ELCC 310
Note: This course will be evaluated using a credit (pass)/non-credit (fail) grading system
Note: May be eligible for challenge.

ELCC 321-3 (BC=3)
(3-0) 15 weeks
Family Studies

The family as an integral institution in society. Various family forms, and the specific organization, functions, dynamics, and influences on individual family members. Focus is on the stresses facing contemporary families, and especially their impact on children.

Prerequisite: ELCC Certificate or consent of department.

ELCC 323-3 (BC=3)
(3-0) 15 weeks
Program Planning IV

Program planning in diverse early childhood settings. Includes planning math, science, and technological experiences. Parent and community involvement. Record keeping, child assessment, program evaluation.

Prerequisite: ELCC Certificate or consent of department.

Note: These courses can be taken in any sequence.

ELCC 325-3 (BC=3)
(3-0) 15 weeks
Children With Special Needs

Care and education of children with special needs in inclusive environments. Exploration of both developmental and behavioral program strategies to deal with children's exceptionalities. Emphasis on team planning with families and professionals.

Prerequisite: ELCC Certificate or consent of department.

Economics

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ECON 100-3 (BC=3)
(3-0) 15 weeks
Introduction to Business
Microeconomics

Terminology, concepts, theory, methods, and limitations of current microeconomic analysis. Analyzing and understanding economics as it relates to individuals and businesses. How political, social, and market forces determine and affect the Canadian economy.

Credit will not be granted for both ECON 100 and 201.

ECON 101-3 (BC=3)
(3-0) 15 weeks
Introduction to Business
Macroeconomics

Terminology, concepts, and theory used to understand, analyse, and evaluate the overall performance of an economy. Defining and using economic indicators. Canadian banking system. Inflation and unemployment. Monetary and fiscal policy. Foreign control. Economic growth. International trade.

Credit will not be granted for both ECON 101 and 202.

ECON 201-3 (BC=3)
(3-0) 15 weeks
Introduction to Microeconomics

Scarcity and choice. Methods used in economic science. Specialization, markets, and exchange. Supply and demand. Roles of consumers, firms, and resource owners in competitive and monopolistic markets. International trade. Government intervention. Emphasis is on Canadian problems, issues, policies, and institutions. Credit will not be granted for both ECON 100 and 201.

Note: It is recommended that you have Grade 12 level Math or equivalent as background.

ECON 202-3 (BC=3)
(3-0) 15 weeks
Introduction to Macroeconomics

Defining and measuring aggregate economic variables. National income and monetary theory. Government monetary and fiscal policies. Unemployment and inflation. Exchange rates and balance of payment. Emphasis is on the Canadian economy.

Prerequisite: ECON 201

Credit will not be granted for both ECON 101 and 202.

Note: It is recommended that you have Grade 12 level Math or equivalent as background.

ECON 323-3 (BC=3)
(3-0) 15 weeks
International Economics

Emphasis is on basic international trade theories and policies. Gains from exchange and specialization. International factor movements. Theory of tariff and non-tariff barriers. Exchange rates. Balance of payments. International debt.

Prerequisite: ECON 201 and 202.

ECON 331-3 (BC=3)
(3-0) 15 weeks
Labour Economics

Using microeconomic principles to analyze the labour market. The scope will include theory, empirical evidence, and policy issues. Emphasis is on the Canadian economy. Labour supply and labour demand. Equilibrium wages and employment levels in both competitive and non-competitive labour markets. Wage differentials, unions, and discrimination.

Prerequisite: ECON 201.

ECON 337-3 (BC=3)
(3-0) 15 weeks
Development Economics

An introduction to the economic development process in developing nations. Analysis will include explanations for underdevelopment and examination of issues such as poverty, employment, income distribution, population growth, human capital, savings and investment, trade, foreign aid, and the role of markets and governments.

Prerequisite: ECON 100/101 or ECON 201/202, or consent of the Department.

ECON 341-3 (BC=3)
(3-0) 15 weeks
Money and Banking

Nature and functions of money. Money creation. Financial markets and financial intermediation. Industrial structure and regulation in Canadian banking. Elementary monetary theory. Central banking and monetary policy. International finance.

Prerequisite: ECON 100/101 or ECON 201/202, or consent of the Department.

ECON 355-3 (BC=3)
(3-0) 15 weeks
Sports Economics

Economic analysis of sports, with emphasis on professional team sports. Topics include demand for sports, the economic structure of leagues, winning and profitability, franchise values, pay and performance, free agency, arbitration, and discrimination. Policy issues such as competition law and government subsidies will also be considered.

Prerequisite: ECON 201

ECON 373-3 (BC=3)
(3-0) 15 weeks
Industrial Organization

Basic theory of industrial organization economics, based on the analysis of market structure, conduct, and performance. Emphasis is on aspects of Canadian industry

and competition policy. Concepts of market structure. The meaning and measurement of monopoly power. Competition. Barriers to entry. Product differentiation. Economies of scale. Oligopoly. Collusion. Advertising. Organization of the firm. Prerequisite: ECON 201.

ECON 381-3 (BC=3)
(3-1) 15 weeks

Intermediate Microeconomic Theory
Theory of consumer behaviour. Theory of production and cost. Determining price and output under competition, monopoly, and other market structures. Prerequisite: Math 30 (Pure), ECON 201.

ECON 382-3 (BC=3)
(3-1) 15 weeks

Intermediate Macroeconomic Theory
Determination of income, employment, prices, interest rates, exchange rates and balance of payments. Impact of supply shocks, fiscal policy and monetary policy. Prerequisite: Math 30 (Pure), ECON 201 and 202.

Education

(These courses are intended for Education students.)

EDCM 341-3 (BC=3)
(3-0) 15 weeks

Communication in the Classroom
By focussing on your interpersonal skills, this course examines communication in the classroom. Students will practice and improve these skills through presentations, small group work, role playing, and communication exercises.

EDCT 410-3 (BC=3)
(3-0) 45 hrs; 2 weeks

Welding Level 1 CTS Teacher Education
This course is designed to meet the needs of teachers within the education program who do not have a Trades credential (journeyperson) and who would like to build skills necessary to teach in a Career and Technology Studies (CTS) welding shop setting. The course addresses specific CTS content using Apprenticeship Individual Learning modules (ILMs). The focus is on developing applicable welding skills, developing knowledge and skills re safety guidelines and regulations, and the development and assessment of projects suitable for shop use.
Note: Credit will be granted for post Bachelor of Education students only.

EDCT 411-3 (BC=3)
(3-0) 45 hrs; 2 weeks

Welding Level 2 CTS Teacher Education
This course builds on the skills and knowledge developed in Welding Level 1. Prerequisite: EDCT 310
Note: Credit will be granted for post Bachelor of Education students only.

EDCT 420-3 (BC=3)
(3-0) 45 hrs; 2 weeks

Carpentry Level 1 CTS Teacher Education
This course is designed to meet the needs of teachers within the education program who do not have a Trades credential (journeyperson) and who would like to build skills necessary to teach in a Career and Technology Studies (CTS) carpentry shop setting. The course addresses specific CTS content using Apprenticeship Individual Learning modules (ILMs). The focus is on developing applicable carpentry skills, developing knowledge and skills re safety guidelines and regulations, and the development and assessment of projects suitable for shop use.
Note: Credit will be granted for post Bachelor of Education students only.

EDCT 421-3 (BC=3)
(3-0) 45 hrs; 2 weeks

Carpentry Level 2 CTS Teacher Education
This course builds on the skills and knowledge developed in Carpentry Level 1. Prerequisite: EDCT 320
Note: Credit will be granted for post Bachelor of Education students only.

EDCT 430-3 (BC=3)
(3-0) 45 hrs; 2 weeks

Automotive Service Level 1 CTS Teacher Education
This course is designed to meet the needs of teachers who do not have a Trades credential (journeyperson) and who would like to build skills necessary to teach in a Career and Technology Studies (CTS) automotive shop setting. The course addresses specific CTS content using Apprenticeship Individual Learning modules (ILMs). The focus is on learning how to teach in a shop environment, developing applicable automotive service skills, developing knowledge and skills re safety guidelines and regulations. In addition there is a focus on the development and assessment of projects suitable for shop use.
Note: Credit will be granted for post Bachelor of Education students only.

EDCT 435-1 (BC=1)
(1-0) 8 weeks

Safety and Building Materials
Learn how Fire Safety, WHMIS, Occupational Health and Safety regulations and safe work practices affect the worksite. Understand uses and types of ladders, scaffolding systems and rigging methods used in construction. Examine construction materials available including solid woods, manufactured products, and concrete. Demonstrate methods for joining, gluing and fastening.

EDCT 440-4 (BC=4)
(4-0) 8 weeks

Hand and Power Tools
Identify and demonstrate the safe use of hand tools, portable power tools, stationary power tools, pneumatic and fuel powered tools and power actuated tools. Construct projects in a shop setting using a variety of woodworking machinery, tools and materials.

EDCT 445-2 (BC=2)
(2-0) 8 weeks

Site Preparation, Building Layout and Foundations
Examine the processes required to prepare a site for development. Identify the tools and equipment used to prepare the site. Identify the differences in conventional and alternate foundations. Demonstrate the layout methods of formwork construction, reinforcement requirements and preparation for and placing of concrete for footings, walls and slabs.

EDCT 450-1 (BC=1)
(1-0) 8 weeks

Floor Frame
Discover the types of forces affecting buildings and how to design and construct to counteract them. Learn the components used and methods employed to design and build a floor system with appropriate support mechanisms that will perform well, safely and be accommodating of other services required by other trades.

EDCT 455-3 (BC=3)
(3-0) 8 weeks

Estimating and Plans I
Learn and apply the basic math calculations used in Carpentry. Develop technical Carpentry drawing and sketching skills using basic drawing instruments to complete formal drawings, shop drawings and sketches. Examine the paper language used to create working drawings and use this information to navigate a variety of blueprints.

EDCT 460-3 (BC=3)
(0-3) 8 weeks
Projects I

Build on knowledge attained from the technical information and practice skills by measuring, laying out, cutting, shaping and fastening a variety of projects made from hardwoods, softwoods and manufactured products using woodworking tools and machines in a shop or worksite setting.

EDCT 465-5 (BC=5)
(320 hours) 8 weeks
Practicum I

Participate in an off-campus practicum with a provincial journeyperson to further develop the first period apprenticeship technical knowledge learned by working on a worksite(s) with a company that specializes in foundations and/or floor framing and gain experience with various tools, machinery and equipment.
Credit or No Credit.

EDCT 470-2 (BC=2)
(2-0) 8 weeks
Frame Structures

Examine the technical terminology, load designs, types of wall systems, ceiling joists and materials used for framing structures in light construction. Examine how to design, layout, assemble wall systems in safe, efficient and effective ways while interpreting working drawings and code requirements.

EDCT 475-3 (BC=3)
(3-0) 8 weeks
Residential Roofs

Explore the variety of roof systems used in light construction, terminology, examine the effects of loads and forces on the structure, how to calculate, layout, cut and erect components for gable, hip and intersecting roofs and trusses safely and to code requirements.

EDCT 480-2 (BC=2)
(2-0) 8 weeks
Interior and Exterior Finishes

Explore the variety of Window and door types, installation procedures and related hardware. Examine the various exterior finishes for light construction including flashings, materials used, barriers and their preparation and installation procedures.

EDCT 485-2 (BC=2)
(2-0) 8 weeks
Wood Stairs

Learn about the different types of stairs, and their uses in light construction. Examine code requirements, design implications and construction techniques for straight, single and multi-flight stairs and various stringer designs.

EDCT 456-3 (BC=3)
(3-0) 8 weeks
Estimating and Plans II

Apply math concepts learned in period one to perform calculations including material takeoffs, spacing calculations, rough opening locations plus roof and stair calculations., Develop blueprint reading and drawing skills to better interpret blueprints, plan navigation techniques, information generation for different trades, estimating materials and connections to building codes.

EDCT 461-2 (BC=2)
(0-2) 8 weeks
Projects II

Build on knowledge attained from the technical information and practice skills gained in period one to plan, develop, create various projects in a shop setting that will reinforce learning and build the skill required in Carpentry.

EDCT 466-16 (BC=16)
(960 hours) 24 weeks
Practicum II

Participate in an off-campus practicum with a provincial journeyperson to further develop the first period apprenticeship technical knowledge learned by working on a worksite(s) with a company that preferably specializes in framing houses and gain experience with various tools, machinery and equipment.
Credit or No Credit

EDFN 201-3 (BC=3)
(3-0) 15 weeks
Introduction to Canadian Education

An introductory course that explores both historical and contemporary issues in education. Students will become aware of the factors that have shaped and are shaping Alberta's public education system. This course helps students to develop the basic skills and knowledge that will enable them to become effective classroom teachers.

Note: This course is not transferrable to U of A. **

EDFN 341-3 (BC=3)
(3-0) 15 weeks

Concepts of Childhood in the History of Education

A study of those views of childhood which have exerted a significant influence on educational theory and practice from antiquity to today.

EDFX 203-3 (BC=4)
(45 hours lecture, 60 hours fieldwork) 15 weeks

Education Field Experience

An introductory education course that gives you the opportunity to go out to area schools where you will work closely with professional teachers and observe and interact with elementary, middle and/or high school students. In your class seminar, you will learn about educational topics and discuss your field experiences. The field experience component requires you to spend two mornings per week in a local school. **It is imperative that you leave this time free when you are creating your timetable.**

This course will be graded as CR/NCR (credit/no credit)

EDIT 302-3 (BC=4)
(3-3) 15 weeks

Introduction to Educational Technology

This course examines frameworks, trends, issues and futuristic scenarios on the role of technology in education. Students will gain hands-on experience of using technology, with a special emphasis on strategies for integrating technology into the school curriculum. Credit will not be granted for EDPY 302 and EDIT 302.

Prerequisite: EDUC 250

Note: This prerequisite does not apply to Elementary and Secondary After Degree students.

EDUC 250-3 (BC=3)
(3-0) 15 weeks
The Context of Education

This course focuses on the different contexts of professional practice within education. It critically examines the complex social relationships among educators as professionals and learners as participants in educational institutions.

EDUC 251-3 (BC=3)
(3-0) 15 weeks
Aboriginal Education and the Context of Professional Engagement
 Pre-service teachers will continue to develop knowledge of Aboriginal peoples' histories, educational experiences, knowledge systems, ways of knowing and being and will further understand the implications of this knowledge to professional roles and obligations for teachers. Engagement in learning processes of self-and-other awareness, supported by Aboriginal educators, Faculty and Elders.
 Prerequisite: EDUC 250
Note: This prerequisite does not apply to Elementary and Secondary After Degree students.

EDUC 310-3 (BC=3)
(3-0) 15 weeks
Introduction to Curriculum Studies
 Field of inquiry unique to Education. Considers mandated programs of study, theories, practices, and implications of teaching and learning.
 Prerequisites: One of EDCM 341, EDFN 341, EDFX 203, EDIT 302, EDPY 200, EDUC 250, FAM 322 or FAM 315

EDUC 320-3 (BC=3)
(3-0) 15 weeks
Media, Culture, and Curriculum
 Principles, perspectives, and practices for future teachers. Implications for childhood and adolescence, literacy, learning, critical thinking, creativity, gender, identity, politics.
 Prerequisites: One of EDCM 341, EDFN 341, EDFX 203, EDIT 302, EDPY 200, EDUC 250, FAM 322, or FAM 315

Educational Assistant

Note: Not all courses listed may be offered. Check Course Timetable for availability.

EDAS 111-3 (BC=3)
(3-0) 15 weeks
Role of the Assistant
 Clarification of the roles of the teacher and the educational assistant. Topics include code of conduct, job descriptions, tasks, Alberta Teachers' Association policies, classroom management techniques and positive school climate.

EDAS 114-3 (BC=3)
(140 hours) 4 full weeks
Field Experience
 Working as an educational assistant for four full weeks. Includes a seminar component. Scheduled after all coursework is complete. Prerequisite: All compulsory course work.

EDAS 116-3 (BC=3)
(3-0) 15 weeks
Human Relations
 Developing and increasing your understanding of self and others. Interpersonal skills required in supportive roles as a para-professional.

EDAS 151-3 (BC=3)
(3-0) 15 weeks
History & Trends in Exceptionalities
 Attitudes toward and services provided to persons with disabilities throughout history. Current trends and issues in special education. Laws relating to persons with disabilities in the U.S. and Canada, and Alberta in particular.

EDAS 152-3 (BC=3)
(3-0) 15 weeks
Overview of Exceptionalities
 This course examines definitions, classification schemes, prevalence, causes, psychological and behavioural characteristics, and introduces educational considerations covering a wide range of exceptionalities.
 Prerequisite or Corequisite: EDAS 151 or consent of the Department.

EDAS 153-3 (BC=3)
(3-0) 15 weeks
Fostering Positive Behaviour
 Students will review both learning and behaviour management philosophies in order to build a repertoire of effective techniques and strategies that fosters positive behaviour change in the classroom. Prerequisite: EDAS 151 and EDAS 111
 Co-requisite: EDAS 152 or consent of the Department.

EDAS 156-3 (BC=3)
(3-0) 15 weeks
Visual Impairment
 This course examines issues and techniques involved in teaching persons with visual impairment. Definitions, classification schemes, measurement, prevalence, causes, psychological and behavioural characteristics and basic teaching techniques are reviewed. Prerequisite: EDAS 111 and EDAS 152 or consent of the Department.

EDAS 157-3 (BC=3)
(3-0) 15 weeks
Physical Disabilities
 Issues and techniques involved in teaching persons with physical disabilities. Common physical disabilities. Related materials and equipment.
 Prerequisite: EDAS 111 and EDAS 152 or consent of the Department.

EDAS 158-3 (BC=3)
(3-0) 15 weeks
Communication Disorders
 Issues and techniques involved in teaching students with communication disorders. Speech development, identifying disorders and the role of the educational assistant. Prerequisite: EDAS 111 and EDAS 152 or consent of the Department.

EDAS 159-3 (BC=3)
(3-0) 15 weeks
Hearing Impairment
 This course examines issues and techniques involved in teaching persons with hearing impairment. Definitions, classification schemes, measurement, prevalence, causes, psychological and behavioral characteristics and basic teaching techniques are reviewed. Prerequisite: EDAS 111 and EDAS 152 or consent of the Department.

EDAS 160-3 (BC=3)
(3-0) 15 weeks
Assisting the Language Learning Teacher
 Effective teaching strategies for language arts. Topics include learning theory, early literacy intervention, comprehension and decoding strategies, the writing process and writing analysis with an emphasis on assisting students in improving their reading and writing skills.

EDAS 161-3 (BC=3)
(3-0) 15 weeks
Assisting the Math Teacher
 Mathematical concepts taught at the elementary school level. Teaching techniques for the mathematics classroom. Designing learning activities to improve children's understanding of math.

EDAS 163-1 (BC=1)
(3-0) 5 weeks
Supporting Students with Anxiety Disorders
 This course explores the most common anxiety disorders with an emphasis on strategies and practices that assist and support these students in the classroom and with their peers.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 164-1 (BC=1)
(3-0) 5 weeks

Supporting Students with Mental Health Concerns

This course explores the most common mental health disorders with an emphasis on strategies and practices that assist and support these students in the classroom and with their peers.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 165-1 (BC=1)
(3-0) 5 weeks

Supporting Students with Disruptive Behaviour Disorders

This course explores some of the more common behaviour disorders with an emphasis on developing strategies that assist students in areas of communication, behaviour and social interaction in the classroom.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 166-1 (BC=1)
(3-0) 5 weeks

with Autism

Learners explore the characteristics of classic Autism with an emphasis on building communication, social and behaviour strategies for use in the classroom and other inclusive settings.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 167-1 (BC=1)
(3-0) 5 weeks

Supporting Students with Asperger's Syndrome

In this course we explore the common characteristics of Asperger's syndrome with an emphasis on teaching strategies that encourage positive communication, social and behaviour skills for students in the classroom and other inclusive settings.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 168-1 (BC=1)
(3-0) 5 weeks

Supporting Students with Classic Autism

Explore the characteristics that are used to differentiate classifications other than Autism and Asperger's Syndrome. Investigate a variety of communication, social and behavioural strategies for use in the classroom and other inclusive settings.

Prerequisite: EDAS 111 and 152 or consent of department.

EDAS 181-4 (BC=4)
15 hours seminar, 156 hours fieldwork
15 weeks

Field Practice

Working under a co-operating supervisor in an educational setting. Taking part in a regularly scheduled seminar to discuss field practice.

Prerequisite: EDAS 111, EDAS 160 and EDAS 116

Pre/Co-requisites: EDAS 161 and EDAS 152

Electrical Engineering Technology

EET 100-2 (BC=2)
(2-0-0) 15 weeks

Project Management

Covers the project management process, the role of the project manager, how projects help organizations achieve their objectives, organizational structure of projects, management of projects, and how to use project management software.

EET 105-4 (BC=5)
(4-0-2) 15 weeks

Physics and DC Analysis

Explore multi-dimensional engineering problems in kinematics, Newton's laws, circular motion, torque, electromagnetic and mechanical waves, conservation laws and steady state linear circuits.

Corequisite: EET 120

EET 110-3 (BC=4)
(3-0-2) 15 weeks

AC Analysis

Analyze the response of electrical circuits and networks when driven by single and multiple alternating current (AC) sources.

Prerequisites: EET 105 and GET 110

EET 115-3 (BC=3)
(3-0-1) 15 weeks

DC Machines

Explore the physical laws underlying the operation of direct current motors and generators. Examine their construction, characteristics, control, and applications. Draw and interpret wiring diagrams related to their control. Construct circuits using actual machines in the lab to examine their operations.

Prerequisites: EET 105 and GET 110

EET 120-3 (BC=3)
(3-0-0) 15 weeks

Applied Electronics

Develop an understanding of semiconductor circuits built from components such as diodes, transistors, operational amplifiers, silicon controlled rectifiers, triacs, diacs, photo devices and electronic transducers.

Corequisites: EET 110

EET 125-3 (BC=3)
(3-0-0) 15 weeks

Electrical Systems Design I

Design electrical systems for small industrial, residential, and commercial buildings using Canadian Electrical Code. Size and specify electrical service, feeders, and overcurrent protection using minimum code and engineering requirements. Apply computer aided drafting to produce electrical drawings.

Prerequisites: GET 110

EET 130-2 (BC=3)
(2-0-2) 15 weeks

Microcontroller Applications II

Implement microprocessor-based control systems commonly found in robotics and instrumentation utilizing knowledge of microcontroller architecture and instruction sets, interfacing techniques, high level programming languages and multitasking.

Prerequisites: GET 110 and GET 125

EET 200-3 (BC=3)
(3-0-1) 15 weeks

AC Machines

Examine the underlying principles, construction, control, and performance characteristics of transformers; single-phase and three-phase alternating current motors and generators. Analyze losses and efficiency. Determine developed speed and torque. Use laboratory equipment to conduct experiments and test the theory.

Prerequisites: EET 110

Corequisite: EET 210

EET 205-3 (BC=3)
(3-0-1) 15 weeks

Programmable Controllers

Examine the roles, functions, hardware, software, programming, and interfacing of Programmable Logic Controllers (PLCs) in a production environment. Learn about digital logic concepts and PLC ladder logic. Write basic programs and create program documentation.

Prerequisites: GET 125

Corequisite: EET 220

EET 210-3 (BC=3)
(3-0-1) 15 weeks
Power Systems
 Explore the main components of a complex power system from generation to consumption. Analyze faults and determine fault currents using symmetrical components, MVA-base, and per-unit methods. Use the latest software to design and test power systems.
 Prerequisites: EET 110 and EET 115
 Corequisites: EET 200

EET 215-2 (BC=2)
(2-0-2) 15 weeks
Power Electronics
 Learn about polyphase rectification, AC inverters, open and closed loop systems, AC motor variable frequency controllers, DC solid-state controllers, reflected waves and power quality.
 Prerequisite: EET 120

EET 220-4 (BC=4)
(4-0-1) 15 weeks
Control and Instrumentation
 Examine the principles and practices used in the design and application of common industrial process control components and systems including open and closed loop systems, feedback design principles of electronic, pneumatic and hydraulic devices, signal converters, power amplifiers and control valve specification and sizing.
 Prerequisites: GET 115 and EET 110
 Corequisites: EET 205

EET 225-3 (BC=3)
(3-0-1) 15 weeks
Electrical Systems Design II
 Explore the electrical design of industrial plants and motor control centers. Specify, size, and produce schematic drawings for control of industrial loads. Examine substation wirings, equipment, and grounding. Apply appropriate power factor correction techniques and devices.
 Prerequisites: EET 210

EET 230-3 (BC=3)
(3-0-1) 15 weeks
SCADA and HMI
 Learn about the main concepts, communication protocols, software, hardware, and interface technology used by industrial networks in monitoring, data collection, and control of industrial processes. Examine the graphical representation of the process data to human operators.
 Corequisite: EET 235

EET 235-3 (BC=3)
(3-0-1) 15 weeks
Industrial Networks
 Examine networks and data communications, describe data and signals, modulation, media (wired and wireless), connectivity devices, multiplexing, error correction and detection, network architectures and the operations and protocols of the Internet.
 Prerequisites: EET 205
 Corequisite: EET 230

EET 240-3 (BC=3)
(2-0-2) 15 weeks
Forensic Engineering
 Employ scientific and engineering investigation methods and tools to assess potential sources, causes and solutions for prevention of failure due to natural accidents, fire, high and low speed impacts, design defects, improper selection of materials, manufacturing defects, improper service conditions, inadequate maintenance and human error.
 Prerequisites: EET 110

EET 245-3 (BC=3)
(3-0) 15 weeks
Topic in Emerging Technologies
 Examine newer technologies in the electrical, electronic and instrumentation fields. Specific topics will vary from year to year and may include alternative energy sources, swarm robotics, neuroprosthetics and nanotechnology applications.
 Prerequisite: Successful completion of all courses in Term 3 or permission of the Department.
 Note: This course is not eligible for Prior Learning and Recognition

EET 246-3 (BC=3)
(3-1) 15 weeks
Topic in Instrumentation
 Considers subjects of increasing importance in modern control systems. Specific topics will vary from year to year and may include artificial intelligence and robotics, signal processing, satellite communication, remote sensing and fuzzy logic.
 Prerequisite: Successful completion of all courses in Term 3 or permission of the Department.
 Note: This course is not eligible for Prior Learning and Recognition

EET 247-3 (BC=3)
(3-1) 15 weeks
Topic in Power Systems
 Cover advanced material related to Power Systems. Specific topics will vary from year to year and may include transmission and distribution modelling, forecasting and decision theory.
 Prerequisite: Successful completion of all courses in Term 3 or permission of the Department.
 Note: This course is not eligible for Prior Learning and Recognition

EET 250-1 (BC=1)
(1-0-0) 15 weeks
EET Capstone Project I
 Perform preliminary research and prepare a proposal for an Electrical Engineering Technology project to be completed in GET 201.
 Prerequisites: Completion of all first year courses or permission of the department.
 Not eligible for Prior Learning and Recognition

EET 251-3 (BC=3)
(3-0-0) 15 weeks
EET Capstone Project II
 This course, along with Capstone Project I, consists of researching and compiling a technical report on a topic that will incorporate the skill set of an Electrical Engineering Technology graduate. Progress reports occur at regular intervals. Presentations are scheduled for end of the semester.
 Prerequisites: EET 251
 Not eligible for Prior Learning and Recognition

Engineering

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ENCP 200-3 (BC=3)
(3-0-1.5) 15 weeks
Computer Programming for Engineers
 Fundamentals of computer programming with emphasis on solving engineering problems. Programming in a high level language. Selection and loop structures, routines, arrays and record types, text file operation, pointers.
 Prerequisite: Consent of the Department.

ENGG 200-2 (BC=2)
(2-0-0) 15 weeks**Orientation to the Engineering Profession**

Development and history of the engineering profession. Branches of engineering. Engineering roles in various branches. Includes presentations from engineers in different branches. Several written assignments will form the basis for an assessment of your report writing abilities.

Note: This course will be repeated for credit in 2nd term.

Note: Open to Engineering students only.

ENGG 205-3 (BC=4)
(3-2.5) 15 weeks**Engineering Mechanics I**

Statics: Force vectors; equilibrium of particles in two and three dimensions; force system resultants; equilibrium of a rigid body in two and three dimensions; trusses; frames, machines and beams. Dynamics: Kinematics and kinetics of particles.

ENGG 230-3 (BC=4)
(3-1-2) 15 weeks**Engineering Statics**

Equilibrium of planar systems. Particle and rigid-body equilibrium. Reduction of a simple distributed loading. Structural analysis, planar trusses and frames. Internal forces. Centre of gravity and centroid. Friction. Moment of inertia.

Co-requisite: MATH 212

Note: Open to Engineering students only.

ENGG 251-3 (BC=3)
(1-4.5) 15 weeks**Design and Communication I**

The principles of engineering design, engineering graphics and written communication learned within a hands-on project-based experience for engineering students. Safety in the laboratory; working in a team environment; core skills for engineering students; process of engineering design; graphical communication: theory of projection, multi-view representations, descriptive geometry, sketching, information for manufacturing; written communication: style, format, organization, preparation and presentation skills. Real-life examples of design and engineering practice across all disciplines. Core competencies will be learned primarily within the context of team-based design projects.

ENGG 253-3 (BC=3)
(1-4.5) 15 weeks**Design and Communication II**

A continuation of Engineering 251. Students will perform more advanced team-based projects that integrate mathematical, scientific and engineering knowledge and skills. Issues that play critical roles in engineering design will be introduced, such as project management, societal and environmental awareness, health and safety, design for safety, sustainable development, information access, etc.

ENPH 231-3 (BC=4)
(3-1S-3/2)**Engineering Dynamics**

Kinematics and dynamics of particle. Work and energy methods. Impulse and angular momentum. Introduction to kinematics and dynamics of rigid bodies.

Prerequisite: MATH 212.

Note: Open to Engineering students only

English

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ENGL 050-5 (BC=5)
(4-2S) 15 weeks**Basic English**

See "Career and Academic Preparation Courses," page 202.

ENGL 075-5 (BC=5)
(5-0) 15 weeks**Reading and Composition**

See "Career and Academic Preparation Courses," page 202.

ENGL 090-5 (BC=5)
(5-0) 15 weeks**Practical Writing and Literature**

See "Career and Academic Preparation Courses," page 202.

ENGL 095-5 (BC=5)
(5-0) 15 weeks**Literature and Composition**

See "Career and Academic Preparation Courses," page 202.

First-Year University Transfer English Courses

Red Deer College offers university transfer English courses at the 200 level. These are usually prerequisites for 300-level English courses and for more advanced work in English. The overall objective for all 200-level courses is to develop critical reading skills

and composition skills at the university level. Class discussions and instruction in composing academic essays will be combined with practice in critical analysis and self-expression.

ENGL 219-3 (BC=3)
(3-0) 15 weeks**Essay Composition and Critical Reading**

The focus is on formal preparation for university level essay writing and the skills related to critical reading, interpretation, and argument.

Prerequisite: ELA 30-1 or 095

Note: Credit will not be granted for both ENGL 219 and ENGL 210.

ENGL 220-3 (BC=3)
(3-0) 15 weeks**Literary Analysis**

The course explores a range of literary genres while continuing to focus on deepening the required structural and critical skills related to thinking and writing about literature.

Prerequisite: ENGL 219.

Second-Year University Transfer English Courses

These courses are open to students who have completed two term-courses or one full-year course in English at the 200 level, or who have the instructor's permission. These courses may be taken to meet specific program requirements, to serve as elective credits (options) in a program, and to lead to more advanced work in English studies. If you wish to major in English or pursue an Honours English program, consult the appropriate university calendars before choosing 300-level courses.

ENGL 302-6 (BC=6)
(3-0) 30 weeks**Introduction to Contemporary Theoretical Practices**

This course will study the major schools of contemporary literary theory, comparing their principles and methods to changing definitions of literature, testing their claims and uses against differing values of readers. Theoretical debate and practical analysis combine in this course to train the student as a polemical literary critic. Selected readings represent Gender, Post-Colonial, New Historical, Feminist, Marxist, Psychoanalytic, Structuralist, Reader-Response, and Formalist criticism.

Prerequisite: 6 credits of 200 Level English

ENGL 305-3 (BC=3)
(3-0) 15 weeks
The Development of Children's Literature
 Providing historical background to current concepts of children's literature, the course examines the evolution of children's literature, its trends and themes, as well as contemporary children's literature. A short time is spent considering what childhood is, so as to understand some of the childhood responses to literature. The course then attempts to answer the question: "What is Children's Literature?"
 Prerequisite: 6 credits of 200 Level English

ENGL 306-3 (BC=3)
(3-0) 15 weeks
Folklore in Children's Literature
 This course offers a study of oral materials drawn into English literature from a range of cultural traditions. These include myths (mainly Greek, Norse, and North American Indian), folk-tales (Perrault, Grimm, Andersen, and others), and legends. Ballads, stories in song and verse, and lore in rhyme are studied. Common themes and theories on the origin and evolution of folklore are discussed. Modern folklore (such as fantasy and science fiction) is related to folklore of the past. The emphasis is on the place of folklore in children's literature.
 Prerequisite: 6 credits of 200 Level English

ENGL 309-6 (BC=6)
(3-0) 30 weeks
Expository Writing
 The purpose of this course is to increase your ability to write clear expository prose. Models of prose style will be studied and used in frequent writing practice.
 Prerequisite: 6 credits of 200 Level English

ENGL 330-3 (BC=3)
(3-0) 15 weeks
Early English Renaissance
 The literature of the later Tudor period is studied, with emphasis on the early years of Elizabeth's reign. Writers include More, Elyot, Hoby, Wyatt, Surrey, Sidney, Spenser, Marlow, Drayton, Shakespeare, and others.
 Prerequisite: 6 credits of 200 Level English

ENGL 331-3 (BC=3)
(3-0) 15 weeks
Later English Renaissance
 Prose and poetry from approximately 1600-1650 are studied. Poetry includes works by Donne, Herbert, Vaughn, Jonson, Marvell, Milton, and others. Prose includes readings from Bacon, Donne, Burton, Bunyan, and others.
 Prerequisite: 6 credits of 200 Level English

ENGL 340-6 (BC=6)
(3-0) 30 weeks
Foundations: Literature in English from the Middle Ages to the Present
 An historical survey of representative literature in English from the Middle Ages to the present.
Note: Not to be taken by students with credit in ENGL 200 or ENGL 304.
 Prerequisite: ENGL 219 and ENGL 220

ENGL 341-3 (BC=3)
(3-0) 15 weeks
The Augustan Age
 Major literary works of the Augustan period are examined, as well as the natural and moral philosophy of the time. Emphasis is placed on the satirical works of Swift and Pope, but a representative sampling of the works of other men and women writers of the period will be considered.
 Prerequisite: 6 credits of 200 Level English

ENGL 343-3 (BC=3)
(3-0) 15 weeks
The Age of Johnson
 A complement to ENGL 341, this course deals with the major literary works of the second half of the 18th century. Although the course centres on the works of Samuel Johnson, important works by other men and women writers of the period will also be studied.
 Prerequisite: 6 credits of 200 Level English

ENGL 345-3 (BC=3)
(3-0) 15 weeks
The British Romantic Period
 This course deals primarily with the major Romantic poets, but other writers of the period will be considered. The main focus is on the poetry and its revolutionary or prophetic concerns. Also considered are the radical changes in morals, lifestyles, social attitudes, and mythological patterns of the Romantic period.
 Prerequisite: 6 credits of 200 Level English

ENGL 347-3 (BC=3)
(3-0) 15 weeks
The Victorian Period
 Victorian England (1837-1901) became the centre of a cultural, political, and commercial empire, leading the world into a modern era of urban and industrial development. This course divides the period into early, middle, and late phases, studying how its literature responds to social change.
 Prerequisite: 6 credits of 200 Level English

ENGL 351-3 (BC=3)
(3-0) 15 weeks
Poetry Reading and Analysis
 The focus of this course is on developing skills of careful reading and analysis of poetry, with attention to the relationship between poetic form and meaning.
 Prerequisite: 6 credits of 200 Level English

ENGL 357-6 (BC=6)
(3-0) 30 weeks
The English Novel
 This course examines key works in the development of the English novel from the 18th to the early 20th century. The course covers the history of the genre, the techniques of the novel, and works by such authors as Defoe, Richardson, Fielding, Goldsmith, Walpole, Austen, Dickens, Eliot, Bronte, and Hardy.
 Prerequisite: 6 credits of 200 Level English

ENGL 361-3 (BC=3)
(3-0) 15 weeks
Early 20th Century British Novel
 The radical changes in morals, lifestyles, social attitudes, and political concerns of the early 20th century are reflected in the lives and writings of British prose writers of this period. In addition to examining novels by a variety of writers, we will consider the influence that other artists, philosophers, and politicians had on the literature of this period. (Recommended to be followed by ENGL 368.)
 Prerequisite: 6 credits of 200 Level English

ENGL 366-3 (BC=3)
(3-0) 15 weeks
The Short Story
 This course examines representative works of short fiction illustrating the tradition of the short story in English. The course will sample contemporary experiments in the short story form and introduce a technical vocabulary appropriate to the study of narrative.
 Prerequisite: 6 credits of 200 Level English

ENGL 368-3 (BC=3)
(3-0) 15 weeks
Later 20th Century British Novel
 The Modern period is marked by a wide range of literary forms, styles, and content pioneered by the writers of the first quarter of this century. This course focuses on the main writers of the next 30-40 years, whose works illustrate the ever-expanding scope of the Modern novel. These works also show how changes in morals, social values, political structures, and technology were altering the artist's reaction to his/her new

role in the world. (Recommended to be preceded by ENGL 361.)
Prerequisite: 6 credits of 200 Level English

ENGL 371-3 (BC=3)
(3-0) 15 weeks

Topic in Canadian Literature

The focus will vary from year to year, but possible topic areas include literature of a specific Canadian region, genre, or theme (for example, Canadian Prairie Writing, Contemporary Canadian Women's Writing, The Canadian Long Poem, Canadian Gothic). Prerequisite: 6 credits of 200 Level English
Note: You cannot have credit in both ENGL 371 and 382

ENGL 373-6 (BC=6)
(3-0) 30 weeks

American Literature to 1900

This course examines American literature from the period of the first settlements in the early 1600's, but concentrating on the 19th century. As America emerged from its colonial status into nationhood, there developed a desire to construct a canon of distinctively American literature; this course discusses the body of work that constitutes this canon and also interrogates the canon, giving some attention to writers traditionally omitted.

Prerequisite: 6 credits of 200 Level English

ENGL 376-3 (BC=3)
(3-0) 15 weeks

Introduction to Creative Writing: Fiction

This course provides instruction and practice in the foundations of writing literary fiction. Writing exercises will focus on word play, developing evocative language, the need for technically accurate and credible dialogue, identifying and mastering various narrative shifts such as exposition and Free Indirect Discourse, and understanding the necessity for tension and conflict, characterization, and plot. Considerable time will be spent reading and studying peer work and existing examples of excellent writing. It does not provide instruction in writing formulaic or non-fiction. Participation in the workshop environment is essential. A strong academic average in writing-based courses is strongly recommended.

Prerequisite: 6 credits of 200 Level English

ENGL 377-3 (BC=3)
(3-0) 15 weeks

Introduction to Creative Writing: Poetry

This course is conducted as a seminar. Models of excellent writing are used as a basis for classroom discussion. This includes works from the 20th century as well as students' own works. You will be expected to hand in creative work and a set exercise every week. This is not a composition course. It deals with practical problems of creative writing, such as style, techniques, poetic forms, and the role of the literary artist. You should have a good academic average, although you need not have been published.

Prerequisite: 6 credits of 200 Level English

ENGL 378-3 (BC=3)
(3-0) 15 weeks

Intermediate Creative Writing: Fiction

This course will build on the foundation acquired in ENGL 376, with an emphasis on wider practice of narrative skills. Attention will shift from exercises dedicated to particular aspects of narrative form to the integration of these elements in completed short fiction. Considerable reading and studying of existing models of excellent writing are required. Participation in the workshop environment is essential.

Prerequisite: Minimum Grade of B in ENGL 376 or Consent of Department

ENGL 379-3 (BC=3)
(3-0) 15 weeks

Intermediate Creative Writing: Poetry

ENGL 377 is continued, with basically the same objectives and assignments. This course concentrates more on your own creative work and less on special exercises. Open to students who have done well in ENGL 377.

Prerequisite: 6 credits of 200 Level English and ENGL 377

ENGL 382-6 (BC=6)
(3-0) 30 weeks

Canadian Literature from 1925

This course is a critical and historical study of the literature of English-speaking Canada from 1925 to the present. We will examine both poetry and prose, concentrating on modernist and postmodernist writers of the period such as E.J. Pratt, Dorothy Livesay, Earle Birney, Sinclair Ross, Margaret Atwood, Robert Kroetsch, Margaret Laurence, Mordecai Richler, Carol Shields, and Michael Ondaatje.

Prerequisite: 6 credits of 200 Level English

ENGL 383-6 (BC=6)
(3-0) 30 weeks

American Literature from 1900

The major American writers of the 20th century have created a literature that profoundly expresses the nature of existence in the modern world. This course surveys the diversity of literary expression in representative works of fiction, poetry, and drama of the period.

Prerequisite: 6 credits of 200 Level English

ENGL 385-3 (BC=3)
(3-0) 15 weeks

First Nations Literature

The emphasis will be on modern and contemporary First Nations writing in Canada, though earlier works and some American First Nations writing will be introduced. Also considered will be the oral tradition and literary, cultural, and political issues related to course material.

Prerequisite: 6 credits of 200 Level English

ENGL 387-3 (BC=3)
(3-0) 15 weeks

Topic in Literature and Society

Although the specific topic will vary from year to year, this course investigates the conjunction of literature, culture, and social issues, examining historical, social, economic, political, and gender determinants that intersect within individual works. Specific topics may include Literature and Science, Literature and Health Care, or Literature and Religion.

Prerequisite: 6 credits of 200 Level English
Note: This course may be repeated for credit.

ENGL 389-3 (BC=3)
(3-0) 15 weeks

Topic in Women's Writing

Although the specific topic will vary from year to year, this course will examine writing by women in ways that are informed by theoretical approaches to women's literature. Topics may focus on a specific time period, genre, geographic region, or theme (such as Women's Writing to 1900, Women Novelists in Britain, Representations of Gender).

Prerequisite: 6 credits of 200 Level English
Note: This course may be repeated for credit.

ENGL 391-3 (BC=3)**(3-0) 15 weeks****Topic In International Literature**

The focus of this course, while its content will vary from year to year, will be on literature written in English outside of Canada, Great Britain, and the United States. Students may study work from a particular geographic region - e.g., Africa, the Indian Subcontinent, the Caribbean, Australasia - or they may study particular issues in the field of post-colonial literature.

Prerequisite: 6 credits of 200 Level English
Note: This course may be repeated for credit.

ENGL 392-6 (BC=6)**(3-0) 30 weeks****International English Literature**

The focus of the course will be on literatures written in English outside of Canada, Great Britain, and the United States, encompassing representative works from several areas such as Africa, Australasia, the Caribbean, and the Indian subcontinent.

Prerequisite: 6 credits of 200 Level English

ENGL 393-3 (BC=3)**(3-0) 15 weeks****Science Fiction**

This course will study the features and history of the science fiction genre through the study of representative works.

Prerequisite: 6 credits of 200 Level English

ENGL 395-3 (BC=3)**(3-0) 15 weeks****Topic in Shakespeare**

This course examines a representative sampling of Shakespeare's plays, focusing on a particular group of plays, or a particular dominant theme or concern. The course will attempt to ask pertinent questions about some of Shakespeare's major interests, and to investigate his development as a dramatist. Various critical approaches to the plays will be discussed.

Prerequisite: 6 credits of 200 Level English.
Note: Not to be taken by students with credit in ENGL 332. This course may be repeated for credit.

ENGL 399-3 (BC=3)**(3-0) 15 weeks****Detective Fiction**

This course will study the genre of detective fiction using representative works from the nineteenth and twentieth centuries. We will explore detective fiction's history, ideas, and relation to both popular and literary culture.

Prerequisite: 6 credits of 200 Level English

Family Studies

FAM 315-3 (BC=3)**(3-0) 15 weeks****Relationship Development**

The study of the nature of intimate relationships in friendship, marriage and family. Teaching and classroom implications will be considered.

FAM 322-3 (BC=3)**(3-0) 15 weeks****Human Sexuality**

An inquiry into the nature of sexual behaviour, its personal and cultural sources and its personal, familial, societal and educational implications. The focus of this class is to prepare future teachers to instruct sexuality education curriculum and to provide background knowledge which will help teachers understand children's growth and development as it pertains to human sexuality.

Film

FILM 201-3 (BC=4)**(3-2) 15 weeks****Introduction to Film: Film Art**

This introductory film art course surveys the formal development and production value of cinema, providing a basic knowledge of genre, form, style, and theory based on the close study of selected titles from the silent era to the present day. Its mandate is to theorize film production and analyze film reception within a technical and aesthetic framework.

Co-requisite: 6 credits of 200 Level English

FILM 202-3 (BC=4)**(3-2) 15 weeks****Introduction to Film: Film History**

This introductory film course surveys the historical development and social value of cinema, providing a basic knowledge of national schools, production eras, and ideological trends based on the close study of selected titles from the silent era to the present day. Its mandate is to theorize film production and analyze film reception within a historical and cultural framework.

Co-requisite: 6 credits of 200 Level English

FILM 301-3 (BC=4)**(3-2) 15 weeks****Topic in Film Genre**

This course provides students with an overview of the style, narrative patterns, historical evolution, and cultural mythologies of a selected film genre, such as the musical, the western, horror, or children's film

Prerequisites: FILM 201 or 202; 6 credits of 200 Level English; or consent of the department.

Financial Services

FINS 180-3 (BC=3)**(3-0) 15 weeks****Financial Products and Services**

This course provides a conceptual knowledge base, which allows students to analyse and explain a wide variety of financial products and services available to banking customers. This background is set against an analysis of the role of money and products/services in the economy. The primary focus is the ability to analyse, compare, and explain different products and services as they relate to the customers' varied needs.

FINS 280-8 (BC=8)**(8-0) 500 hours over 16 weeks****Financial Services Work Experience**

This course provides an opportunity for students to work in the financial services industry and apply knowledge learned in their first year. Students will be exposed to a variety of entry level positions. This course offers students paid work experience selling personal financial products. Consult the program coordinator for details.

Prerequisite: FINS 180 or consent of department.

FINS 281-3 (BC=3)**(3-0) 15 weeks****Investment Funds in Canada (IFIC)**

The Investment Funds in Canada course provides an in depth look at the fundamentals of mutual funds and related investment products in Canada. Students who successfully complete the course requirements for FINS 281 Investment Funds in Canada (IFIC) are eligible to take the IFIC exam administered by The Institute of Canadian Bankers. A minimum of 60% must be achieved on the IFIC examination in order to register for a mutual funds license. Students are allowed three attempts at the exam before having to repeat the course.

Prerequisite: FINS 180 or consent of department.

FINS 282-3 (BC=3)**(3-0) 15 weeks****Retail Credit in Canada**

This course begins with an overview of the six fundamentals of credit. Various retail credit products, such as secured and unsecured loans, lines of credit and mortgages, will be discussed. Time value of money concepts will be used to calculate loan payments and compare interest costs. The case study method will be used to develop students' understanding of sound borrowing decisions.

Prerequisite: FINS 180 or consent of department.

FINS 284-3 (BC=3)**(3-0) 15 weeks****Fundamentals of Personal Finance**

The Fundamentals of Personal Finance addresses communication techniques and relationship building skills. The course covers preparation, analysis and understanding of personal financial statements; preparing a debt and cash management plan; time value of money concepts in financial calculations, and economic theory as it applies to personal finance.

Prerequisite: FINS 180 or consent of department.

FINS 286-3 (BC=3)**(3-0) 15 weeks****Insurance in Canada**

Term and whole life, disability, accident, critical illness, and creditor insurance contracts will be studied. The course will also review how these products are underwritten by bank and non-bank insurers and coordinated with government benefits. Students will write the Life License Qualification Program (LLQP) exam at the end of the course as offered by the IFIC.

Prerequisite: FINS 281

FINS 287-3 (BC=3)**(3-0) 15 weeks****Advanced Financial Planning**

This course integrates the knowledge and skills gained in the core curriculum of the Diploma in Financial Services program. Students will apply their skills and knowledge in the development of a comprehensive financial plan, as well as, other integrative activities throughout the course.

Prerequisite: FINS 281, 282, BADM 260 or consent of department.

FINS 320-3 (BC=3)**(3-0) 15 weeks****Select Topics in Financial Services**

Specialized areas of knowledge in financial services that allow students to gain a broader understanding of the diverse needs of the financial services industry, its management and its customers. Course offering and specific topics depend on availability of a qualified instructor with the required skills and experience.

FINS 321-3 (BC=3)**(3-0) 15 weeks****Select Topics in Financial Services**

Specialized areas of knowledge in financial services that allow students to gain a broader understanding of the diverse needs of the financial services industry, its management and its customers. Course offering and specific topics depend on availability of a qualified instructor with the required skills and experience.

French

Note: 100-level language courses are intended for students with little or no background in the language. Students who have high school matriculation in the language, or who are taking a 100-level course to meet a university's matriculation requirements, may be denied transfer credit. Check the Transfer Guide and with the university.

Note: Not all courses listed may be offered. Check Course Timetable for availability.

FREN 101-3 (BC=4)**(4-1) 15 weeks****Beginners' French**

For students without any French or with French 10. Comprehension, speaking, reading, and writing. The oral aspect of the language is stressed in class.

FREN 102-3 (BC=4)**(4-1) 15 weeks****Beginners' French II**

For students who have taken French 20 or FREN 101. The oral aspect of the language is stressed in class. The course will prepare you for university-level courses.

Prerequisite: French 20 or FREN 101 or equivalent or consent of the Department.

FREN 202-3 (BC=4)**(4-1) 15 weeks****Intermediate French I**

Spoken and written French, including grammar, composition, literature, and conversation. The literature includes works of modern authors.

Prerequisite: French 30, FREN 102 or equivalent.

FREN 203-3 (BC=4)**(4-1) 15 weeks****Intermediate French II**

A continuation of FREN 202. Further development of spoken and written French, including grammar, composition, literature and conversation. The literature includes works of modern authors.

Prerequisite: FREN 202, Francais 30 or equivalent.

Note: Students presenting French Language Arts 30 or Francais 30 may apply for advanced placement directly into French 203. Those wanting credit for French 202 may apply to challenge the course; in that case the challenge must be completed before starting FREN 203. Those presenting IB French HL or SL with a grade of 6 or higher will receive credit as per page 28.

FREN 302-3 (BC=4)**(4-0) 15 weeks****Advanced French I**

To further develop written and oral skills learned in FREN 202-203 or an equivalent, with an emphasis on presentation grammar, composition and literary elements. Conversation activities are included in the course.

Prerequisite: FREN 200, FREN 203 or equivalent.

FREN 303-3 (BC=4)**(4-0) 15 weeks****Advanced French II**

A continuation of FREN 302. Further development of reading, written and oral skills with an emphasis on presentation grammar, composition and literary analysis. Conversation activities are included in the course.

Prerequisite: FREN 302

FREN 353-3 (BC=3)**(3-0) 15 weeks****Introduction to French Canadian Literature**

Literary expression in French Canada, from its origins to the present time. A historical approach.

Prerequisite: FREN 200 or FREN 203 or consent of the Department.

FREN 354-3 (BC=3)
(3-0) 15 weeks
Introduction to French Canadian Literature

Continuation and complement to FREN 353. A textual approach with emphasis on the problems of literary analyses.

Prerequisite: FREN 200 or FREN 203 or consent of the Department.

General Engineering Technology

(open to Engineering Technology students only)

GET 100-2 (BC=2)
(2-0-0) 15 weeks
Professional Practice

Explore major topics related to the Engineering Technology profession including its history in North America and Europe, the role of the technologist, public and workplace safety, ethical and legal issues and principles of sustainability, industrial hygiene, time management and study skills, career paths and professional development.

GET 105-3 (BC=3)
(3-1-0) 15 weeks

Engineering Communications

Use industry standard software tools to collect, summarize and organize data in order to aid in critical decision making processes. Employ professional presentation and communication skills to exchange data and information in a variety of ways.

GET 110-3 (BC=3)
(3-1-1) 15 weeks

Math and Differential Calculus

Apply the fundamental principles and operations of algebra, geometry, trigonometry, nonlinear equations, systems of equations using matrices and determinants and differential calculus by using real life examples and systems.

GET 115-3 (BC=3)
(3-1-1) 15 weeks

Advanced Calculus

Extend the understanding of calculus to include integration techniques and applications, differential equations, Maclaurin and trigonometric Fourier series, Laplace transforms and inverse Laplace transforms.

Prerequisites: GET 110

GET 120-2 (BC=2)
(2-0-0) 15 weeks
Statistics

Examine the main concepts and techniques of statistical theory and their application to process control, quality assurance, data collection, summarization, and presentation. Probability distributions, point and interval estimation, hypothesis testing, correlation, regression analysis, quality control and control charts will also be covered.

GET 125-2 (BC=2)
(2-1-1) 15 weeks

Microcontroller Applications I

Develop C programming skills by learning fundamental concepts such as data types, decision making, loops and recursion, functions and subroutines, software libraries, debugging methods, structured design, documentation and the software life cycle using microcontrollers.

Genetics

GENE 370-3 (BC=3)
(3-0) 15 weeks

Foundations of Molecular Genetics

A detailed look at the genetics of microorganisms. Experiments on bacteria and viruses are used to examine concepts such as fertility, genetic fine structure, mutagenesis, DNA repair, DNA replication and the control of gene expression.

Prerequisite: BIOL 317.

GENE 375-3 (BC=3)
(3-0) 15 weeks

The Genetics of Higher Organisms

A survey of the principles of genetics of eukaryotes. Gene structure and function. Mendelian genetics. Cytoplasmic inheritance. Cytogenetics. Biochemical genetics. Developmental genetics. Emphasis is on examples from human genetics.

Prerequisite: BIOL 317.

Geography

Note: Not all courses listed may be offered. Check Course Timetable for availability.

GEOG 230-3 (BC=4)
(3-0-2) 15 weeks

Introductory Physical Geography

Geomorphology: the nature and formation of major landform features of the earth's surface. Rock weathering and slope movements; landforms developed by the erosion and deposition processes of rivers, glaciers, winds, waves, and currents. A field trip may be offered. Relevant environmental issues will be addressed.

GEOG 231-3 (BC=4)
(3-0-2) 15 weeks

Introductory Physical Geography II

Atmosphere and biosphere. Physical elements of weather and climate. Causes, changes, and patterns of weather. Climate classification. How climate, soils, and vegetation are interrelated. Relevant environmental issues will be addressed.

Note: GEOG 230 does not have to precede GEOG 231.

GEOG 250-3 (BC=3)
(3-0) 15 weeks

Spatial Organization of Human Activity

Introduction to the concepts of relative location, spatial interaction and spatial organization of human activity in both rural and urban settings; geographical theories and techniques.

GEOG 251-3 (BC=3)
(3-0) 15 weeks

Introduction to Cultural Geography

This introductory course will focus on basic concepts in human geography, the human environment, sustainability and development, population dynamics, migration, economic development, settlement patterns, cultural landscapes, the political world, industrialization, transportation, environmental change and other topics of current interest.

Based on lectures as well as hands-on classroom assignments, this course will enable students to acquire problem-solving and basic analytical skills widely applied in geography.

GEOG 381-3 (BC=3)
(3-0) 15 weeks**Geography of Canada**

The regional geography of Canada. Canada's physical features and how they have affected the country's history and development. The concept of geographic regions. Patterns and characteristics of these regions, with selected detailed studies.

Prerequisite: A previous course in Geography is strongly recommended.

GEOG 382-3 (BC=3)
(3-0) 15 weeks**World Regional Geography**

This course is a study of the major world regions. Each region is examined in terms of its distinguishing features as well as its functional connectedness to other regions through processes like globalization. Regional trading blocs, growing environmental issues, access to, and use of resources, diasporas and transnationalism, and increasing developed-developing country disparities are key issues that are addressed within the framework of the 'regional approach' to spatial analysis.

GEOG 393-3 (BC=3)
(3-0) 15 weeks**The Geography of Cities**

This introductory course will focus on how cities have evolved as they have, in their spatial and social structure, institutions and attitudes; understanding the historical processes and patterns by which cities have become simultaneously, the products and shapers of economic, social, political and technological change; studying demographic change and its effects on city internal structure and land use patterns; analysing the forces and factors that influence neighbourhood choice and growth; understanding the interrelationship between economic and social change within an urban context; and also comprehending the mechanisms of city systems.

Health Care Aide**HCA 141-3 (BC=3)**
(49 class hours/12 lab hours)**Working Safely and Effectively as a HCA**

Understanding the role and responsibilities of the Health Care Aide program, relevant legislation, client and workplace safety, focusing on knowledge and skills required to maintain safety for the client and staff member in the care environment.

HCA 142-2 (BC=2)
(19 class hours/6 lab hours)**Communication in a Health Care Environment**

Communicate effectively as a member of the health care team. You will learn communication strategies to overcome barriers of sensory loss due to disease and aging.

HCA 143-3 (BC=3)
(36 class hours)**Structure and Function of the Human Body-Health and Chronic Illness**

You will gain understanding of the systems of the human body and the impact of developmental stages and chronic conditions.

HCA 144-4 (BC=4)
(34 class hours/31.5 lab hours)**Providing Client Care and Comfort**

Develop advanced skills to assist clients with personal grooming and hygiene, and movement.

HCA 145-2 (BC=2)
(11 class hours/25 lab hours)**Meeting Complex Care Needs**

Advanced skills for Health Care Aides which support care activities such as: ostomy care, respiratory care, catheter care, measuring vital signs, assisting with specimen collection and assisting with tube feedings.

HCA 146-1 (BC=1)
(6 class hours/12 lab hours)**Assisting with Medication Delivery**

Understand the role and responsibility of the Health Care Aide in assisting with the delivery of medication to clients.

HCA 147-3 (BC=3)
(48 class hours)**Special Activities for Diverse Clients**

Develop skills for assisting with diverse care needs of clients. Understand care required for clients with a diagnosis of dementia and examine personal feelings and experiences as related to our aging population.

HCA 122-4 (BC=4)
(120 hours clinical practice)**Health Care Aide Supervised Clinical Practice**

Clinical practice in the role of the health care aide, supervised by an instructor, in an institutional setting.

HCA 123-3 (BC=3)
(80 hours)**Health Care Aide Preceptored Clinical Practice**

Preceptored clinical practice in the role of the health care aide in institutional setting.. Prerequisites: HCA 141, 142, 143, 144, 145, 145, 147 and HCA 122

History

Note: Not all courses listed may be offered. Check Course Timetable for availability.

CLAS 209-3 (BC=3)
(3-0) 15 weeks**Early World History I**

The beginnings of civilization to circa A.D. 600. Special emphasis is placed on Ancient Greek and Roman culture, mythology, religion and history. Students will be introduced to the daily life and historical importance of these two cultures.

CLAS 320-3 (BC=3)
(3-0) 15 weeks**Roman History**

The study of late Republican Rome and the Imperial period, using Roman Historians of the time as source material.

HIST 207-3 (BC=3)
(3-0) 15 weeks**Early Modern World History 1450-1789**

Survey of world history from the fall of Constantinople in 1453 to onset of the French Revolution in 1789. Topics may include: Protestantism and religious warfare, changing state and social structures, witchcraft, exploration and European encounters with other continents, and changes to statecraft.

HIST 208-3 (BC=3)
(3-0) 15 weeks**The World Since 1789**

Survey of world history since the French Revolution. Topics may include industrialization, nationalism and imperialism, the two World Wars, the Russian Revolution, the Cold War, and the march towards globalization.

HIST 209-3 (BC=3)
(3-0) 15 weeks**Pre Modern World History**

A history of the world from the sixth century to the mid-fifteenth century. This course deals with the barbarian invasions and the collapse of the classical empires in Europe, China, and India; the expansion of universal religions of Buddhism, Hinduism,

COURSE DESCRIPTIONS

Christianity; the birth of Islam and the early Islamic Empires; the Crusades; the Turko-Mongol Empires; the silk routes and the effect of trade and commerce on Europe and Asia, and the origins of European expansion into the rest of the world.

HIST 301-6 (BC=6)

(3-0) 30 weeks

European History Since the Renaissance

A survey of European history from 1500 to the present. Emphasis is on the political, economic, social and cultural development of European civilization as a whole.

HIST 311-6 (BC=6)

(3-0) 30 weeks

International Relations in the 20th Century

The impact of ideologically based foreign policies on international relations since World War I.

HIST 314-3 (BC=3)

(3-0) 15 weeks

Europe in the Era of the World Wars, 1900-1945

An overview and analysis of Europe from the heyday of imperialism at the turn of the twentieth century to the end of World War II. Topics may include social, political, and economic development, the two World Wars and the Great Depression. Recommended preparation: HIST 208.

HIST 315-3 (BC=3)

(3-0) 15 weeks

Europe in the Era of the Cold War, 1942-1991

Europe from World War II to the end of the twentieth century. Topics may include the economic and social reconstruction of Eastern and Western Europe, decolonization, the emergence of two ideological blocs, political, cultural, and social changes, the warming of international relations, the end of the Cold War in the 1990s, and the uncertainty that followed. Recommended preparation: HIST 208

HIST 320-3 (BC=3)

(3-0-0) 15 weeks

Europe in the Eighteenth Century: The Age of Enlightenment

An examination of social, cultural, intellectual, and political history of Europe in the eighteenth century. Topics may include: warfare, the Enlightenment, challenges to the old regimes, the French Revolution; and European based Empires. Students with credit in HIST 301 cannot take this course for credit.

HIST 321-3 (BC=3)

(3-0-0) 15 weeks

Europe in the Nineteenth Century: The Age of Ideologies and Revolution

An examination of social, political, cultural, and intellectual history of nineteenth-century Europe. Topics may include: the emergence of new ideologies; the age of revolutions; Napoleonic France; rise of nationalism; and colonial warfare. Students with credit in HIST 301 cannot take this course for credit.

HIST 325-3 (BC=3)

(3-0) 15 weeks

Science and Religion from 1500 to the Present

A survey of the interaction between science and religion from the Scientific Revolution to contemporary issues. Topics may include: reactions to Copernican astronomy, Isaac Newton's religion beliefs, Darwinian Evolution, Creationism, the Big Bang, the human soul, and extraterrestrial inspired religions.

HIST 327-3 (BC=3)

(3-0) 15 weeks

The European Witch Craze

A history of the intellectual, cultural, social, and theological origins, development, and decline of witchcraft in early-modern Europe. This course will be a combination of lectures and discussions.

HIST 330-3 (BC=3)

(3-0) 15 weeks

History of Health and Healing

Survey of health traditions around the world in historical times. Spiritualistic and scholarly healing traditions. The transition towards modern ideas about the body and healing, and holism. Relations among healing practitioners. Social, cultural, and political attitudes and practices towards health and healing.

HIST 333-3 (BC=3)

(3-0) 15 weeks

A Social History of England from 1815 to 1914

This course will examine the everyday life of the English people within the context of early industrial society. The course will place specific emphasis on the development of social class and examine how aspects of everyday life contributed to defining these social groups. Special attention will be placed on social legislation, urban and suburbanization, sport and leisure practices, education and literacy, and popular protest and political reform.

HIST 334-3 (BC=3)

(3-0) 15 weeks

A Social History of England from 1918 to the Present

This course will examine the everyday life of the English people within the context of the modern state. The course will place special emphasis on the emergence of a consumer culture, the Welfare State, mass media, and changing class perceptions. Special attention will be placed on popular culture, the relationship to work and leisure, social legislation, political protest and Thatcherism and the New Conservatives.

HIST 349-6 (BC=6)

(3-0) 30 weeks

The British Empire and Commonwealth

The analysis of British Imperialism from the Old to the New Empires to the establishment of the Commonwealth. This course treats imperialism as a dialectic and examines the process from the point of view of both the imperial and host nations. Emphasis is placed on India, the West Indies, North America and Africa. The course is a combination of seminar and lecture.

HIST 351-3 (BC=3)

(3-0-0) 15 weeks

History of the British Empire

Introduction to the social, intellectual, cultural, and political history of the British Empire from its origins to 1997. Empire will be examined both from a British and colonial perspective. Students with credit in HIST 349 cannot take this course for credit.

HIST 361 (BC=3)

(3-0) 15 weeks

The United States to 1865

Survey of the United States from the first colonial settlements to the end of the Civil War. Topics may include: development of an American identity, the Revolutionary War, the rise of the slave economy in the south, the struggle to define the republic, and the Civil War. Students with credit in HIST 360 cannot take this course for credit.

HIST 362-3 (BC=3)

(3-0) 15 weeks

The United States since 1865

Survey of the United States from the end of the Civil War to the present. Topics may include: the impact of industrialization, imperialism, racial inequalities, World War One and World War Two, youth culture and the 1960s, and the era of the Cold War. Students with credit in HIST 360 cannot take this course for credit.

HIST 372-3 (BC=3)
(3-0) 15 weeks**The Prairie West Since 1870**

The Prairie region as part of the Dominion of Canada. The West and Confederation. The impact of the railway. The National Policy. Settlement. Developing a regional identity. Western alienation.

HIST 373-3 (BC=3)
(3-0) 15 weeks**Canadian History to 1867**

Canada's colonial era. The discovery and settlement of the regions that would be united in the Dominion of Canada in 1867. The development of social and political institutions. This course and HIST 374 provide a complete survey of Canadian history and a foundation for senior and advanced courses in this field.

HIST 374-3 (BC=3)
(3-0) 15 weeks**A History of the Dominion of Canada**

A survey of the efforts to create a nation-state that controlled the northern half of the North American continent. The National Policy. The nature of a Canadian identity. Canada among the community of nations. Threats to the country's survival posed by regionalism, separatism, and the influence of the United States.

HIST 377-3 (BC=3)
(3-0) 15 weeks**20th Century Canada**

The impact of industrialization on Canada and Canada's role in international affairs in the 20th century. Canada and the two World Wars. The growth of federal power. Canada as a northern nation. Quebec nationalism. Western alienation.

HIST 379-3 (BC=3)
(3-0) 15 weeks**The First Nations and Canada**

The First Nations and their relations to the peoples of European origin who came to live on the territory that is Canada today, and who have reshaped its geography, culture, and governance. Issues may include colonization, the establishment of the treaty system, assimilation policies, and the revival of Aboriginal political awareness. Recommended preparation: 3 credits in Canadian History.

Hospitality and Tourism Management

HOSP 202-4 (BC=4)
(4-0) 15 weeks**Accounting for Non-financial Managers**

Introductory hospitality financial accounting including the basic structure of accounting, the accounting information system, and generally accepted accounting principles.

HOSP 203-3 (BC=3)
(3-1) 15 weeks**Front Office Procedures**

Presents a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservation process to check-out and settlement. Training is provided on current front office software.

HOSP 204-2 (BC=2)
(1.5-0) 15 weeks**Guest Room Management**

Addresses management responsibilities of the Executive Housekeeper such as staffing, purchasing, planning and controlling expenses. Other topics include guest room design, amenities, and current guest room issues.

HOSP 205-1 (BC=1)
(1-0) 15 weeks**Security and Emergency Management**

Current security issues related to the hospitality industry including procedures relating to physical security, emergency management and overall protection of guests and asset protection.

HOSP 206-3 (BC=3)
(3-0) 15 Weeks**Hospitality Marketing**

Concepts relating to product, price, place and promotion will be covered in this consumer based approach to marketing. This course includes the development of a strategic marketing plan for a Tourism operation.

HOSP 208-3 (BC=3)
(3-0) 15 weeks**Hospitality Sales and Advertising**

Provides a theoretical and practical background in Hospitality sales and advertising. Focuses on practical sales techniques, proven approaches for selling to targeting markets, and role of advertising in sales.

Prerequisite: HOSP 206

HOSP 213-3* (BC=3)
(3-1.5) 15 weeks**Computers**

This is a self-directed course covering an introduction to computers together with word processing, spreadsheet and presentation applications. This course will provide a foundation of computer literacy for the hospitality and tourism industry.

*The course is designed as a self-directed course but a mandatory seminary is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: None

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

HOSP 214-3 (BC=3)
(3-0) 15 weeks**Food, Beverage and Labor Cost Controls**

An emphasis on establishing effective food, beverage and labor cost controls. Includes budgeting, setting operational standards, receiving, storing, issuing, production controls and labor cost management.

HOSP 215-2 (BC=2)
(1.5-0) 15 weeks**Food Safety and Sanitation Management**

Various sanitation and food-related health hazards are discussed. Effective strategies for preventing outbreaks of food-borne illnesses are developed based on the Alberta Environmental Health standards.

HOSP 220-2 (BC=3)
(1-3) 15 weeks**Basic Food Preparation**

An introduction to basic restaurant food preparation techniques including food storage, food safety, pre-preparation and plate presentation. This course addresses menu items similar to those prepared in fast food and casual dining establishments.

HOSP 221-2 (BC=3)
(1-3) 15 weeks**Basic Dining Room Service**

An introduction to dining room service emphasizing the development of professional service skills. Includes electronic point-of-sales training, hosting, stewarding and barista duties in an actual food service setting.

COURSE DESCRIPTIONS

HOSP 226-2 (BC=2)
(1.5-0) 15 weeks
Menu Planning and Design
Covers practical menu design issues including item selection, pricing, design and layout. Also covers the application of specialized menu design software and menu evaluation tools.

HOSP 228-2 (BC=2)
(1.5-1.5) 15 weeks
Bar and Beverage Management
An overview of beverage operations and basic bartending. Topics include product manufacturing, procuring, storing, issuing, inventory management and Alberta Liquor laws. Lab experience offers practical experience in bartending duties with an emphasis on mixology.

HOSP 230-2 (BC=2)
(1.5-0) 15 weeks
Introduction to Wine
An introduction to wines from various regions of the world. Includes viniculture, wine production techniques, selection, wine tasting and evaluation. Matching wine with food and cellar management are also covered.

HOSP 233-2 (BC=2)
(1.5-0) 15 weeks
Quality Service Integration
Assess customer needs and develop business strategies that result in service excellence. Create procedures that integrate Quality Customer Service into all aspects of the guest experience.

HOSP 236-3 (BC=3)
(3-0) 15 weeks
Hospitality Management Accounting
The use of accounting information in managerial decision-making. Topics include financial statement analysis, ratio analysis, pricing, cost management, cost-volume-profit relationships, budgeting, variance, cash flow analysis and cash management. Prerequisite: HOSP 202

HOSP 239-3 (BC=3)
(3-0) 15 weeks
Food Purchasing and Production
Theory related to selection, composition, preparation and storage of various food items. Food trends, kitchen equipment, kitchen design and recipe development will also be discussed.

HOSP 240-3 (BC=3)
(3-0) 15 weeks
Hospitality Human Resource Management
Issues involved in the transition from employee to supervisor. Topics include how to build effective teams, improve interpersonal skills, deal with conflict, and motivate staff. Human Resource Management issues such as staffing, recruiting, selection of staff, compensation, benefits and labor relations are also discussed.

HOSP 241-1 (BC=1)
(1-0) 15 weeks
Strategic Career Development I
An introduction to the Hospitality & Tourism work environment. Examine job profiles, identify career goals and strategies, develop job search skills, prepare resumes and cover letters, understand employee/employer relationships and learn effective interview techniques.

HOSP 242-1 (BC=1)
(1-0) 15 weeks
Strategic Career Development II
Develop career goals and objectives, refine job search skills, prepare job-specific resumes and cover letters, create personal profiles, complete an industry career analysis and enhance interview performance.

HOSP 243-1 (BC=1)
(1-0) 15 weeks
Workplace Safety & Responsibility
First-aid/CPR, WHMIS and ProServe certification.
Note: This course will be graded as CR/NCR (credit/no credit).

HOSP 244-1 (BC=1)
(up to 25 required hours)
Introduction to Hospitality Services and Facilities
Experience and evaluate a selection of Hospitality and Tourism facilities. The focus is on the analysis of the services and operations from a guest perspective.
Note: This course will be graded as CR/NCR (credit/no credit)

HOSP 303-3 (BC=3)
(3-0) 15 weeks
Convention and Event Management
Defines the scope and segmentation of the convention and event market, describes marketing and sales strategies to attract these markets, and explains techniques to meet their needs. Includes the application of specialized space configuration software.

HOSP 306-3 (BC=3)
(3-0) 15 weeks
Accommodation and Restaurant Law
Provides an overview of contract law, tort law, labour laws, and human rights as each relates to the hospitality industry. Additional topics include: insurance, licensing, the Public Health Act, the Liquor Control Act, and the Alberta Innkeepers Act.

HOSP 308-3 (BC=3)
(3-0) 15 weeks
Tourism Operations
An introduction to Global Tourism. Concepts include the psychology of travel, the role of governments and industry associations as well as the marketing and business operations of various tourism sectors.

HOSP 312-3 (BC=3)
(3-0) 15 weeks
Operations and Entrepreneurship
The capstone course in the program. A project based course that encompasses the application of practical skills in entrepreneurship: planning, organizing, leading, controlling, problem solving and business operations.
Prerequisite: HOSP 318

HOSP 313-3 (BC=3)
(3-0) 15 weeks
Advanced Computers for Hospitality Management
Develop intermediate and advanced word processing, spreadsheet, desktop publishing, and/or presentation software skills using current software applications. Emphasis will be placed on the application of skills as they relate to marketing, accounting, human resources and entrepreneurship.
Prerequisite: HOSP 213

HOSP 318-3 (BC=3)
(3-0) 15 weeks
Contemporary Hospitality Management Theory
An examination of contemporary management issues in the Hospitality & Tourism industry. Topics include the role of management in today's business environment, internal and external driving forces, basic organizational design, fundamentals of planning, foundations of decision making, managing change and innovation, management implications of a diversified workforce, techniques for effective critical analysis, social responsibility and ethics.

HOSP 320-2 (BC=2)
(8 hours class - 64 hours lab) 9 weeks
Fine Dining Service

A practical experience to enhance fine dining service skills including American and French service styles as well as professional wine service.

Prerequisite: HOSP 221

HOSP 321-1 (BC=1)
(0-4) 15 weeks

Beverage Operations

Management and operation of a Cocktail Lounge. Includes practical experience in the role of General Manager, Event Coordinator, Kitchen Manager, Bar Manager and Beverage Server. The focus is on planning, supervising and the control systems in a beverage outlet.

Prerequisite: HOSP 228

HOSP 322-2 (BC=2)
(8 hours class - 64 hours lab) 9 weeks

Fine Dining Food Preparation

Advanced food preparation techniques, detailed plate presentation and intricate food combinations. Includes a selection of complex menu items typically found in fine dining establishments throughout North America.

Prerequisite: HOSP 220

HOSP 328-2 (BC=2)
(1-2) 15 weeks

Electronic Marketing for Hospitality and Tourism

Delivering Hospitality & Tourism goods and services via the World Wide Web. Topics include electronic communication in the inventory, exchange, advertisement, distribution and payment of goods and services. The major focus is the understanding of effective web page design as it relates to hospitality-based business.

Prerequisite: HOSP 206, 213

WKEP 230-4 (BC=2)
(240 required hours)

1st Year Field Work

The application of knowledge, skills and abilities acquired in the first year of studies. Securing a position in the Hospitality & Tourism industry is required. This position is subject to College approval. Supervision and continuing employment is at the total discretion of the employer. The employer will be required to submit an assessment of the student. The student must complete at least 240 hours of field work experience. This field work must begin after having satisfied **all other graduation requirements** and be completed within six months.

Prerequisites: HOSP 220, 221 and 241

Note: This course will be graded as CR/NCR (credit/no credit)

WKEP 330-4 (BC=2)
(240 required hours)

2nd Year Field Work

Critical analysis of work place management and operations. Securing a position in the Hospitality & Tourism industry is required. This position must be directly related to the career goals and aspirations as determined in HOSP 242 and is subject to College approval. Supervision and continuing employment is at the total discretion of the employer. The employer will be required to submit an assessment of the student. The student must complete at least 240 hours of field work experience. This field work must begin after having satisfied **all other graduation requirements** and be completed within six months.

Prerequisites: HOSP 242 & 312

Note: This course will be graded as CR/NCR (credit/no credit).

Information Technology

ITEC 100-1 (BC=1)
(1-0) 15 weeks

IT Service Desk

An introduction to the Information Technology Service Desk. Topics include client interaction, e-mail and telephone etiquette, common office productivity software (word processors, spreadsheets, databases), project management software, contact management software, and organizer/scheduling software.

ITEC 105-2 (BC=2)
(2-0) 15 weeks

Discrete Mathematics

Organization of number systems. Develops skills in using and converting number systems. Topics include Boolean algebra and its uses, set theory, logic statements and computer circuitry.

ITEC 110-2 (BC=2)
(3-3) 7.5 weeks

Computer Hardware

Theory, operation, configuration, and troubleshooting of devices associated with desktop and mobile computer systems. Topics include operational theory of common internal system components and peripheral devices, component research, operating system installation, troubleshooting using diagnostic software, and effective configuration/repair documentation.

ITEC 115-2 (BC=2)
(3-3) 7.5 weeks

Operating Systems

Operational theory of modern computer operating systems. Topics include operating system architectures, concurrency issues, protection and security fundamentals, investigation of tools and diagnostic services both graphical and command-line based.

ITEC 120-2 (BC=2)
(3-3) 7.5 weeks

Computer Networking

The latest concepts in Local Area Network (LAN) technologies. Comprehensive introduction to networking concepts. Topics include OSI Model and technologies, components, and protocols found in today's LAN environment, effective configuration/troubleshooting documentation.

ITEC 122-1 (BC=1)
(1.5-1.5) 7.5 weeks

Wireless Technology

Operational theory, configuration and troubleshooting of 802.11 x LAN wireless systems. Topics include wireless protocols and standards, wireless network planning, troubleshooting techniques, signal propagation issues, fundamental understanding and configuration of typical security protocols.

Prerequisite: ITEC 120

ITEC 124-2 (BC=2)
(3-3) 7.5 weeks

TCP/IP

TCP/IP based networks comprising the TCP/IP protocol suite. Topics include IP, ICMP, TCP, UDP protocols; IP subnetting, CIDR, overview of application layer protocols, emerging network technologies, design and configuration of a typical LAN, network troubleshooting and protocol analysis.

Prerequisite: ITEC 120

ITEC 126-1 (BC=1)
(1-0) 15 weeks

VoIP

Voice over IP (VoIP) telephony systems and applications. Topics include VoIP operational theory, protocols and standards, QoS management, comparisons to other telephony technologies, VoIP applications, WAN-based VoIP integration; interoperability with data networks, security issues, design, configuration, troubleshooting of a LAN-based VoIP network system.

Co-requisite: ITEC 124

ITEC 128-2 (BC=2)
(4-0) 7.5 weeks
Wide Area Networks
 Topics related to wide area networking (WAN) including telecommunication infrastructures, frame relay, ISDN, xDSL, and international and emerging WAN technologies.
 Prerequisite: ITEC 124

ITEC 130-2 (BC=2)
(3-3) 7.5 weeks
Security I
 Network security issues, principles, and applications. Topics include threat analysis, security principles and techniques, user/system authentication, common data encryption techniques, secure network topologies, remote access security, packet analysis, security audits, security reports, ethical hacking techniques, security support research, and security software review.
 Prerequisite: ITEC 124

ITEC 140-2 (BC=2)
(3-3) 7.5 weeks
Desktop Operating Systems
 Introduction to various desktop operating systems found in today's networked business environment. A practical course that provides students with experience installing, configuring, optimizing, and troubleshooting various operating systems.
 Co-requisite: ITEC 115

ITEC 145-2 (BC=2)
(3-3) 7.5 weeks
Server Configuration
 Planning, configuration, and troubleshooting of server systems. Topics include hardware selection, active directory configuration, managing users/groups, domain management, configuring DHCP and DNS services, printing support, data backup/recovery procedures, and system diagnostic/recovery tools.
 Prerequisite: ITEC 140

ITEC 150-2 (BC=2)
(3-3) 7.5 weeks
Structured Programming
 Software design principles and problem solving using structure programming. Topics include the development of algorithms, the representation of data, the syntax of a high level procedural programming language, basic data types and control structures. Includes coding, compiling, debugging and documenting programs.

ITEC 153-2 (BC=2)
(3-3) 7.5 weeks
Visual Programming
 Introduction to developing applications for the Windows environment. Topics include graphical user interfaces, event driven strategies, input validation, file processing, database applications, and using classes. Visual Studio is currently used as the programming tool.
 Prerequisite: ITEC 150

ITEC 156-2 (BC=2)
(3-3) 7.5 weeks
Object Oriented Programming
 Includes problem analysis, designing algorithms, and implementing solutions to these problems. Programming topics include object-oriented design, data types and abstraction, classes, method design, interfaces, inheritance, polymorphism, exception handling, user interfaces and recursion.
 Prerequisite: ITEC 150

ITEC 160-2 (BC=2)
(3-3) 7.5 weeks
Web Design
 Topics include web page authoring and design techniques using XHTML and Cascading Style Sheets, the design of effective Web pages including page layout, user interface design and graphic design, and using Visual Basic and ASP.Net technologies to construct dynamic web content with the goal of creating a basic e-Commerce web site.
 Prerequisite: ITEC 153

ITEC 163-1 (BC=1)
(3-3) 4 weeks
Web Client
 Introduction to client-side programming techniques to develop dynamic web pages. Using JavaScript, the student programs objects, manipulates arrays, handles cookies, and validates web forms. The Document Object Model (DOM) and dynamic HTML (DHTML) is used to manipulate server generated content and enhance the user experience.
 Prerequisite: ITEC 160

ITEC 166-1 (BC=1)
(3-3) 4 weeks
Web Server
 Extension of the concepts developed in ITEC 160. Development of server generated web pages and database interaction using open source tools, such as PHP for the server-side programming and MySQL for the database. Real-world projects highlighting good

program design to create practical web applications. Set up and maintenance of an open source Apache Web server.
 Prerequisite: ITEC 160

ITEC 170-4 (BC=4)
(3-3) 15 weeks
Systems Analysis and Design
 Tools, techniques, and methods for analyzing and designing integrated database systems that solve business problems. Data modeling and object modeling techniques implemented using relational database technology. Introduction of process modeling techniques and joint application design methodologies. Exposure to CASE tools to help in the design and documentation process.

ITEC 175-2 (BC=2)
(3-3) 7.5 weeks
Object-Oriented Analysis and Design
 Introduction to the analysis and design of object-oriented applications using the Unified Modeling Language (UML). Students will also construct some of the models that are developed.
 Prerequisite: ITEC 156, ITEC 170

ITEC 180-1 (BC=1)
(1-0) 15 weeks
Career Skills
 Preparation for field work experience and soft-skills essential for industry employment success. Topics include information technology sectors, emerging trends, soft-skill identification, continuing education strategies, portfolio development, entrepreneur resources, employment search strategies, resume design, and interview skills.

ITEC 190-2 (BC=2)
(2-0) 15 weeks
Project
 Independent or group projects. Completed with a supervising staff member and involving systems analysis and design, programming or networking and implementation of a solution to a user problem.

ITEC 193-4 (240 hours) 8 weeks
Practicum
 Industry-based experience working as a member of an IT department in a development or support role. Includes reporting requirements and evaluation.
 Pre/Co-requisite: ITEC 180

ITEC 196-8 (BC=6)**(600 hours) 16 weeks****Work Experience**

Paid work experience as a member of an IT department in a development or support role. Includes reporting requirement and evaluation. Course normally taken at completion of first year of studies.

Pre-Co-requisite: ITEC 180

ITEC 220-2 (BC=2)**(3-3) 7.5 weeks****Network Design and Architecture**

Topics include hierarchical network design, switch management, VLANs, routing protocols, Layer-3 device management, SNMP deployment, remote network management, traffic analysis, Window/Unix inter-networking, WAN protocols and infrastructures, network management software, virtual networking, RFP tendering.

Prerequisite: ITEC 130

ITEC 230-2 (BC=2)**(3-3) 7.5 weeks****Security II**

Topics include advanced data encryption techniques, secure network design, SSO authentication, firewall configurations, intrusion detection/prevention systems, remote access authentication, VPNs, security auditing, packet analysis, computer forensics, hardware security appliances, advanced ethical hacking techniques, security software review.

Prerequisite: ITEC 130

ITEC 241-2 (BC=2)**(3-3) 7.5 weeks****Unix Administration**

Commands and tools associated with the management of a Unix system. Topics include file system structures, permissions, managing system processes and user accounts, customizing system files, applying system utilities, command line interface operations, DNS, mail, FTP, web servers, and managing, troubleshooting, monitoring network operations.

Prerequisite: ITEC 115

ITEC 251-1 (BC=1)**(3-3) 4 weeks****Data Structures**

Further development of the object-oriented programming skills. Topics include organization of data and implementation of common data structures such as lists, stacks, queues and trees, and the relationship between data structures and algorithms.

Prerequisite: ITEC 156

ITEC 254-1 (BC=1)**(3-3) 4 weeks****Advanced Java**

Understanding of the complexities inherent in enterprise development and familiarity with technologies, concepts and building blocks of enterprise development. Hands-on experience with concepts associated with Java Enterprise API including database connectivity, invoking remote methods and Servlets/JSPs.

Prerequisite: ITEC 156

ITEC 257-1 (BC=1)**(3-3) 4 weeks****Extensible Markup Language**

Using the Extensible Markup Language (XML) language to define and produce structured documents that facilitate the exchange of information between different systems. Topics include how to create a well-formed XML document, validating the document against a schema, transforming the document into another document using XSL, and programming against the document using DOM.

Prerequisite: ITEC 163

ITEC 261-1 (BC=1)**(3-3) 4 weeks****Advanced Web Programming**

Technologies associated with websites that do more than simply store and retrieve information. Creation of web services and use of AJAX to create the content-rich, interactive web application often associated with Web 2.0 sites, such as social networking web sites. Includes the development of a Web 2.0 project.

Prerequisite: ITEC 257

ITEC 264-2 (BC=2)**(3-3) 7.5 weeks****Mobile Applications**

Theoretical foundations of mobile computing systems, wireless networks, and advanced mobile applications. Architectures of mobile distributed computing systems; wireless network classification and management; use of the Internet in mobile computing. Development of mobile applications for devices such as the Tablet PC, PDAs, Smartphones, and mobile phones.

Prerequisite: ITEC 153

ITEC 267-2 (BC=2)**(3-3) 7.5 weeks****Distributed Applications**

Implementation of distributed applications using a 3-Tier model. Topics include understanding the roles of the Presentation

layer, Business layer and the Data Access layer, and developing distributed applications over LANs and the Internet using .NET Remoting and Web Services.

Prerequisites: ITEC 160, ITEC 175

ITEC 271-2 (BC=2)**(3-3) 7.5 weeks****Database Server Configuration**

Installation, configuration, and management of relational database management software. Topics include role of the administrator, database design, data modeling, data integrity, backup, query optimization, security, server utilities, and client installation.

Prerequisite: ITEC 140

ITEC 274-2 (BC=2)**(3-3) 7.5 weeks****Structured Query Language**

Introduction to the Structured Query Language (SQL). Using SQL statements to retrieve and manipulate information from databases, and to perform database administration tasks. Topics include SQL syntax, queries, joins, views, transactions, indexes, and developing applications that use databases.

Prerequisite: 153

ITEC 277-2 (BC=2)**(3-3) 7.5 weeks****Robotics**

This course offers an overview of robotic systems as applied towards scientific and industrial applications.

Prerequisite: ITEC 150

ITEC 280-1 (BC=1)**(1-0) 15 weeks****Profession**

Skills necessary to excel in the profession. Activities include continuing education research towards advanced post-secondary accreditations, identification of profession practice associations, professional ethics, understanding data privacy laws, advanced portfolio management, addressing project tenders, business development guidelines and entrepreneur resources, interviewer skills.

Prerequisite: ITEC 180

ITEC 290-4 (BC=4)**(4-0) 15 weeks****Project**

Students work in a team to complete a project of interest that integrates knowledge and skills from previous courses and is responsive to current industry needs. Includes use of project management

COURSE DESCRIPTIONS

process and software. Evaluation is based on reports, meetings with the instructor, achievement of project deliverables and project demonstrations/presentations.

ITEC 293-4 **(240 hours) 8 weeks**

Practicum

Industry-based experience working as a member of an IT department in a development or support role. Includes reporting requirements and evaluation.
Pre/Co-requisite: ITEC 280

ITEC 296-8 (BC=6) **(600 hours) 16 weeks**

Work Experience

Paid work experience as a member of an IT department in a development or support role. Includes reporting requirement and evaluation. Optional course taken at the end of the student's second year of studies.
Pre/Co-requisite: ITEC 280

Interdisciplinary Studies

Note: Courses in interdisciplinary studies will normally be 'team taught' by members of different disciplines.

Note: Not all courses listed may be offered. Check Course Timetable for availability.

INTD 240-3 (BC=3) **(3-0-0) 15 weeks**

Integrated Arts Approach to Movement

Application of physical education emphasizing the connection between creative expression through the mediums of art, music, drama, dance and wellness as it applies to work with diverse clients with multiple needs. Provides students with creative alternatives to maximize the quality of life for clients broadening their outlook on the connection between creativity and wellness in physical education.

INTD 241-3 (BC=3) **(3-0-0) 15 weeks**

Wellness & Lifestyle Management

This course introduces the student to concepts of health, wellness and fitness, providing practical strategies for developing and maintaining a healthy lifestyle. Students, through lectures, practical experience and self-evaluation will address personal wellness in the areas of fitness, nutrition, stress management and self-responsibility. The course serves to assist the student in self-empowerment by developing and

promoting healthy eating, attitudes of physical activity and behaviors for themselves and others.

INTD 301-5 (BC=5) **(2-0-14) 2 weeks**

Cultural Immersion

The focus of this course is to develop cross-cultural competencies through immersion in an international setting or selected domestic location. Interagency collaboration and practical experience with an emphasis on global issues and their impact on health in regions with middle or low income populations will be the focus of this course.

Recommended prerequisites: Any 200 level university transfer course.

INTD 311-3 (BC=3) **(3-0-0) 15 weeks**

Place, Environment and Health

An introduction to the geography of health providing a spatial understanding of population health focusing on the determinants of health, the provision of healthcare services and the role of place and environment in contemporary health challenges.

Prerequisites: Any 200 level university transfer course.

INTD 321-3 (BC=3) **(3-1) 15 weeks**

Contemporary Art in Process I

20th century trends in music, drama, visual art, dance, and creative writing. The course involves individual and group work by way of studying, being exposed to, and applying these disciplines. There are both evening performances and presentations and day classes. Limited to second and/or third year students.

INTD 322-3 (BC=3) **(3-1) 15 weeks**

Contemporary Art in Process II

INTD 321 continued.

Prerequisite: INTD 321 or consent of instructor.

INTD 370-3 (BC=3) **(3-0-0) 15 weeks**

Global Development and Health

Overview of global development and health issues in a cross-cultural context. In this course students will examine, from interdisciplinary perspectives, major global issues, and the promotion of global development and health in middle and lower income regions.

Prerequisite: Any 200 level course, or consent of the instructor.

INTD 375-3 (BC=3) **(3-0) 15 weeks**

An Interdisciplinary Approach to Social Gerontology

This interdisciplinary course on social gerontology introduces students to issues associated with aging in Canadian society. Social gerontology is explored from a variety of perspectives and disciplines.

Prerequisite: Any 200 level university transfer course or consent of the department.

Kinesiology and Sport Studies

Note: Not all courses listed may be offered. Check Course Timetable for availability.

A. Kinesiology and Sport Studies Courses

KNSS 200-3 (BC=4) **(3-0-2) 15 weeks**

Structural Anatomy

Study of human structure including the systems of the body with emphasis on those involved in human movement. Laboratory work includes the use of various learning tools.

Prerequisite: Biology 30 recommended.

Note: You must successfully complete a Laboratory Safety Orientation Seminar and Examination before taking part in labs. These seminars are offered during the first week of classes for each term. If you have completed the seminar and examination before, you may be exempted from the seminar by passing a challenge examination.

KNSS 201-3 (BC=3) **(3-0-0) 15 weeks**

Biomechanics

Qualitative analysis of human movement, using biomechanical principles. Principles are based on basic physics and mathematical laws and theories which are transferred to real world situations to improve motor performance in humans.

KNSS 202-3 (BC=4) **(3-0-2) 15 weeks**

Physiology of Exercise

Examination of how the human body physiologically responds to exercise. The lecture and laboratory experiences are designed to promote a theoretical and practical understanding of the acute and chronic adaptations to the human body with the implementation of a variety of exercise modes.

Prerequisite or Co-requisite: PSIO 258/259

KNSS 203-3 (BC=3)
(3-0-0) 15 weeks**Skill Acquisition and Performance**

Theory of skill acquisition, motor learning, and performance in a variety of sports, physical activities, and recreation.

KNSS 204-3 (BC=3)
(3-0-0) 15 weeks**Introduction to Sociocultural Foundations of Physical Education, Leisure and Sport.**

Study of the nature, function and role of play, physical education, recreation, leisure, and games as a basis for understanding the sociocultural foundations of sport and how contemporary society organizes and transfers attitudes and skills.

KNSS 205-3 (BC=3)
(3-0-0) 15 weeks**History of Sport**

Development of the Olympic Sport Movement and the history of sport and leisure in Canada from colonial times to present providing a foundational understanding of the historical development of sport. Topics will include the historical effect and changes in professionalization, gender roles, culture, Olympic games structure and socialization in Canadian sport and leisure.

Prerequisite: KNSS 204

KNSS 209-3 (BC=3)
(3-0-0) 15 weeks**Measurement and Evaluation**

Methods and techniques for evaluating physical activity programs and participants. Applying tests and measurement in a variety of sport community and institutional settings.

KNSS 210-3 (BC=3)
(2-0-2) 15 weeks**Fitness and Wellness Theory and Practice**

Basic concepts of fitness and nutrition and how they apply to individual needs.

KNSS 220-3 (BC=3)
(3-0-1.5) 15 weeks**Introduction to Athletic Therapy**

Athletic therapy in theory and practice. Sports medicine, care and prevention of injuries, and safety in athletics and physical education.

Prerequisite: KNSS 200.

KNSS 240-3 (BC=4)
(3-0-1.5) 15 weeks**Adapted Physical Education**

Current trends, theory and practice in adapted physical activity including an overview of possible changes to task, environment and instruction as it relates to individuals with a disability.

KNSS 244-3 (BC=3)
(3-0-0) 15 weeks**Introduction to Nutrition**

Overview of normal nutritional requirements, physiological functions and food sources. Examination of the importance of nutritional adequacy for optimal health and in disease prevention including evaluation of nutritional issues and nutritional status.

Note: Not to be taken by students with credit in KNSS 224.

KNSS 250-3 (BC=3)
(3-0-0) 15 weeks**Introduction to the Administration of Sport, Physical Activity, and Recreation Programs**

Management concepts required to successfully administer a sport, physical activity, or recreation program. Tournament building/planning and event management are reinforced through practical learning experiences.

KNSS 253-3 (BC=3)
(3-0-0) 15 weeks**Psychological Sport Performance**

Introduction to sport psychology and mental performance focusing on understanding human behavior in physical activity and sport. This course examines the perspectives of sport psychology in conjunction with personality and social psychology.

KNSS 260-3 (BC=3)
(3-0-0) 15 weeks**Introduction to Coaching Theory**

Introduction to coaching theory focusing on theoretical and practical coaching topics including ethical decision-making, practice planning, basic mental skills, teaching and learning.

Note: This course meets the standards of N.C.C.P. Part A & Part B. Theory.

KNSS 270-3 (BC=3)
(2-0-2) 15 weeks**Leadership and Instruction in Physical Activity**

Leadership, communication, instructional skills and development are explored on an individual and group basis and applied to a variety of settings and activities.

KNSS 280-3 (BC=4)
(3-0-1) 15 weeks**Introduction to Outdoor Education**

Concepts and experiences in outdoor education and leadership are explored through a four day fall camp held during the fourth week of August followed by weekly lectures. (See course notation in the Kinesiology and Sport Studies Program Description of the Academic Calendar.

KNSS 285-3 (BC=3)
(3-0-0) 15 weeks**Physical Activity and Aging**

Examination of the biological, psychological and sociological aspects of aging and their application in developing activities and working with older adults. Emphasis will be given to the role of physical activity and its impact on aging.

KNSS 299-3 (BC=3)
(1.5-0-0) 30 weeks**Directed Studies in Kinesiology and Sport Studies**

Participation in applied practical experiences through the completion of a cooperative work experience of 90 to 100 hours plus 45 hours of seminars over 30 weeks or two academic terms.

Prerequisite: Consent of Chairperson.

KNSS 306-3 (BC=3)
(3-0-0) 15 weeks**Values and Ethics in Adapted Physical Activity**

Exploration of the issues affecting the lives of marginalized individuals and communities. Defining and challenging historical moments, current issues, theories and practices in the area of adapted physical education and rehabilitation. Insight into the key values that guide professional practice for rehabilitation professionals and the fundamental ethical practices in adapted physical activity.

Prerequisite: KNSS 240 or consent of the department.

KNSS 307-3 (BC=3)
(3-0-0) 15 weeks**Growth and Development**

Growth and development using a lifespan approach stressing changes in physical growth and motor development with emphasis on individual differences.

KNSS 340-3 (BC=3)
(3-0-0) 15 weeks
Pedagogies in Adapted Human Movement
 Application of different pedagogical approaches to teach human movement required in adapted physical education settings. Knowledge and experience will be gained working with individuals in diverse populations through a community service learning approach.
 Pre-requisite: KNSS 240

KPED 292-3 (BC=4)
(3-0-1.5) 15 weeks
Introduction to Elementary School Physical Education
 This course provides theoretical and practical experiences in teaching and planning physical education. Emphasis is on physical literacy and developmentally appropriate activities for elementary school aged children 5-12.

KPED 294-3 (BC=3)
(3-0-0) 15 weeks
Introduction to the Movement Activities of Youth, Part I
 A wide range of physical activities and important underlying concepts. Emphasis is on understanding concepts which relate to games, skills, and activities.

KPED 295-3 (BC=3)
(3-0) 15 weeks
Introduction to the Movement Activities of Youth, Part II
 Emphasis is on individual activities in a range of settings.
 Prerequisite: KPED 294.

KPED 309-3 (BC=3)
(3-0-0) 15 weeks
Introduction to the Scientific Basis of Human Movement
 Structure, function, and capacities of the human body as they relate to movement.
Note: Not for Kinesiology degree credit.

B. Dance Courses

KDNC 200-3 (BC=3)
(3-1) 15 weeks
The Spectrum of Dance in Society
 Theory and practice of dance as a human physical activity. Focus will be on the aesthetic, expressive, and rhythmical aspects of movement in a culture's artistic and social life. Movement content, techniques, improvisation, and composition in a variety of dance forms.

KDNC 255-1.5 (BC=2)
(2-1) 15 weeks
Social Dance
 Theory and practice for individuals and partners in the foxtrot, waltz, swing, rumba, cha cha, and additional dances.

KDNC 260-1.5 (BC=2)
(2-1) 15 weeks
Jazz Dance
 Theory and personal skill in body awareness and placement, locomotion, and choreographed jazz dance.

KDNC 340-3 (BC=3)
(3-0-0) 15 weeks
Modern Dance
 Theory and practice in creative dance technique, improvisation, and composition.

C. Physical Activity Courses

Physical activity is the primary means physical educators use to help others attain well-being and personal fulfillment. As a Kinesiology and Sport Studies student, or an Education student with a P.E. major or minor, you need to take part in and appreciate a variety of activities, from your own and other cultures, to better meet the leisure and work needs of your clients. You will develop a personal foundation of physical activity, including appreciation, skill, analytical understanding, and knowledge about different activities. Physical activity is the "physical" in physical education.

KPAC 200-3 (BC=3)
(3-0) 15 weeks
Swimming
 Theory and practice in the front and back crawl, breast stroke, side stroke, and elementary backstroke. Other aquatic skills.

KPAC 211-3 (BC=3)
(3-0) 15 weeks
Basketball
 Theory and practice in individual and team activities.

KPAC 214-3 (BC=3)
(3-0) 15 weeks
Ice Hockey
 Technical and introductory tactical components of the game of ice hockey are presented. Emphasis will be placed on improving both technical skills and coaching expertise. Students are eligible for Hockey Canada Coach Level and Developmental Level Certification.

KPAC 218-3 (BC=3)
(3-0) 15 weeks
Soccer
 Theoretical and practical aspects of the game of soccer at an introductory level including the four basic soccer skills: control, dribbling, passing and shooting. Introduction to goalkeeping and transferring these skills into small sided games. Adaptation of skills to indoor, outdoor and special needs variations will also be covered.

KPAC 231-3 (BC=3)
(3-0) 15 weeks
Badminton
 Theory and practice in service and service return, forehand and backhand drive, clear and smash, drop shots, basic tactics, and officiating. (Must supply own equipment.)

KPAC 233-1.5 (BC=2)
(2-1) 15 weeks
Racquetball/Squash
 Theory and practice in service and service return, forehand and backhand strokes, and basic tactics. (Must supply own equipment.)

KPAC 235-3 (BC=3)
(3-0) 15 weeks
Tennis
 Theory and practice in service and service return, forehand and backhand strokes, approach shots, volley, lob, and basic tactics. (Must supply own equipment.)

KPAC 237-3 (BC=3)
(3-0) 15 weeks
Volleyball
 Theory and practice in individual and team activities.

KPAC 240-1.5 (BC=2)
(2-1) 15 weeks
Baseball/Fastball
 Theory and practice in individual and team activities.

KPAC 245-3 (BC=3)
(3-0) 15 weeks
Golf
 Theory and practice in driving, chipping, pitching, and putting. A fee may be charged for green and range fees.

KPAC 255-3 (BC=3)**(3-0) 15 weeks****Yoga for Beginners**

Introduction to fundamental yoga postures and development of a basic understanding of yoga theory as it pertains to health and wellness. Focus will be given to the different schools of Hatha Yoga, primarily on Ashtanga Yoga, emphasizing progressive practice of selected yoga asanas.

KPAC 260-1.5 (BC=2)**(2-1) 15 weeks****Gymnastics**

Theory and practice in the basic movements common to all forms of gymnastics.

KPAC 270-1.5 (BC=2)**(2-1) 15 weeks****Track and Field**

Theory and practice in sprints, long jump, shot put, hurdles, high jump, discus, distance running, triple jump, javelin, and pole vault.

KPAC 281-1.5 (BC=2)**(2-1) 15 weeks****Cross Country Skiing**

Personal skill development in diagonal striding, double poling, skating, christy and telemark.

Note: One day trip will be scheduled on a weekend during the course.

KPAC 290-3 (BC=3)**(3-0) 15 weeks****Metabolic Conditioning**

Develop knowledge and training in cardiovascular fitness through aerobic and anaerobic conditioning.

Prerequisite: KNSS 210 or consent of the Chairperson.

KPAC 296-3 (BC=3)**(3-0) 15 weeks****Flexibility and Relaxation**

Study of flexibility and relaxation, in relation to overall fitness and personal well being, through physiological, historical, biomechanical, individual, cultural and leadership perspectives. Exploration of practical methods to include this knowledge into personal life and leadership training.

KPAC 310-3 (BC=3)**(3-0-0) 15 weeks****Aquatics**

The development of proficiency in swimming, understanding of scientific principles applied to performance and

analysis of aquatic skills, development of teaching skills, and understanding and application of lifesaving theory and resuscitation.

Prerequisite: Red Cross Blue Level (Level 6) or ability to swim front crawl and back crawl efficiently.

KPAC 311-3 (BC=3)**(3-0-0) 15 weeks****Analysis and Instruction of Basketball**

Theory, practice, and teaching of the fundamental skills of basketball.

Prerequisite: KPAC 211 or consent of Department.

KPAC 314-3 (BC=3)**(3-0-0) 15 weeks****Analysis and Instruction of Ice Hockey**

Advanced theory of the game of Ice Hockey is emphasized. Included are on-ice skills development and the practice of on-ice tactics and multiple player strategies. (Must supply own equipment).

Prerequisite: KPAC 214 or consent of Department.

Note: You must have the minimum skating ability of an average hockey player.

KPAC 321-3 (BC=3)**(3-0-0) 15 weeks****Applied Resistance Training**

Examination and application of fundamental and specific principles associated with resistance training methodologies.

KPAC 337-3 (BC=3)**(3-0-0) 15 weeks****Analysis and Instruction of Volleyball**

Theory, practice, and teaching of basic skills. Emphasis is on acquiring skills and basic team systems.

Prerequisite: KPAC 237 or consent of Department.

Legal Assistant

(Open to Legal Assistant students or with consent of the Department.)

Note: Not all courses listed may be offered. Check Course Timetable for availability.

LEGL 100-3 (BC=3)**(3-0) 15 weeks****Beginning Keyboarding**

Introduction to keyboarding skills including touch keying with no key watching. Emphasis on building skills through proper technique. Prior Learning recognition is available and must be completed before the course add/drop date.

LEGL 105-1 (BC=1)**(1-0) 15 weeks****Introduction to the Canadian Legal System**

The operation and various roles in the Canadian legal system including the processes and institutions involved in making laws.

LEGL 110-3 (BC=3)**(3-0) 15 weeks****Litigation I**

Introduction to civil litigation including the legal system, structure of a law suit, Rules of Court, commencing an action by Statement of Claim, Judgments if no defence, and settlement procedures.

LEGL 115-3 (BC=3)**(3-0) 15 weeks****Litigation II**

Examination of the Defendant's choices in a contested law suit. Also includes torts and how matters get to trial when settlements are not successful.

Prerequisite: LEGL 110

LEGL 120-3 (BC=3)**(3-0) 15 weeks****Corporate Law**

Review of Alberta business structures and legal procedures including creating and maintaining a corporate minute book in accordance with the Business Corporations Act, reporting to the law office client and completing the annual requirements of the corporation.

LEGL 125-2 (BC=2)**(2-0) 15 weeks****Contracts**

Components of a contract, common problems and their remedies.

Prerequisite: LEGL 105

LEGL 130-3 (BC=3)**(3-0) 15 weeks****Real Estate I**

Introduction to real estate practice for legal assistants in Alberta including an overview of the Land Titles system, Personal Property Registry system, types of ownership and documentation used in this practice.

LEGL 135-3 (BC=3)**(3-0) 15 weeks****Business Keyboarding**

Accuracy and speed building in keyboarding skills including Dictaphone work and document production for the creation of business forms, legal documents and correspondence.

Prerequisite: LEGL 100

LEGL 140-3 (BC=3)
(3-0) 15 weeks
Introductory Information Processing for the Legal Assistant
 This is a supported self-directed course covering an introduction to computers together with introductory and intermediate level word processing. This course will provide a foundation of computer literacy for the Legal Assistant field.
 Not available for Prior Learning recognition.

LEGL 145-2 (BC=2)
(2-0) 15 weeks
Criminal Law
 The principles and administration of criminal law using the Criminal Code of Canada and the Charter of Rights and Freedoms.

LEGL 200-3 (BC=3)
(3-0) 15 weeks
Professional and Interpersonal Skills
 Application of professional skills and behaviour, including ethics, as well as development of interpersonal conflict resolution and job search skills.

LEGL 205-3 (BC=3)
(3-0) 15 weeks
Estate Planning
 Preparation of Wills, Enduring Powers of Attorney, Personal Directives, and applications for a Guardian and Trustee and the associated documents including the distribution of an estate when a person dies without a will.

LEGL 210-3 (BC=3)
(3-0) 15 weeks
Litigation III
 Collection of judgments, Writs of Enforcement, garnishment, seizures and an introduction to Chamber applications.
 Prerequisite: LEGL 115

LEGL 215-3 (BC=3)
(3-0) 15 weeks
Litigation IV
 Development of draft documents for chamber applications, using a problem solving approach, based upon fact situations using the Rules of Court as the primary resource.
 Prerequisite: LEGL 210

LEGL 220-3 (BC=3)
(3-0) 15 weeks
Intermediate Information Processing for the Legal Assistant
 Application of advanced word processing concepts, communication, scheduling and law office accounting software.
 Prerequisite: LEGL 140

LEGL 225-3 (BC=3)
(3-0) 15 weeks
Estate Administration
 Preparation of necessary documentation for the transfer of a deceased's estate to beneficiaries based on the Surrogate Court Rules. Includes applications for Probate and Administration.
 Prerequisite: LEGL 205

LEGL 230-3 (BC=3)
(3-0) 15 weeks
Real Estate II
 Documentation requirements for the conveyancing practice in the Province of Alberta.
 Prerequisite: LEGL 130

LEGL 235-3 (BC=3)
(3-0) 15 weeks
Real Estate III
 File development in the practice of real estate in Alberta focusing on both Seller and Buyer perspectives for a variety of transactions.
 Prerequisite: LEGL 230

LEGL 240-3 (BC=3)
(3-0) 15 weeks
Family Law
 Production of documentation for an application for parenting, a Divorce and a Separation Agreement using the Family Law Act, Divorce Act, Matrimonial Property Act and the Rules of Court. Includes issues regarding support, custody, access, and also alternative dispute resolution methods.

LEGL 245-3 (BC=3)
(3-0) 15 weeks
Technology Integration for the Legal Assistant
 Application of advanced computer applications using a case based approach to cloud computing, spreadsheets, databases and specific law office software.
 Prerequisite: LEGL 220

LEGL 250-3 (BC=3)
(15 hrs class/175 hrs) 6 weeks
Practicum
 Directed practicum preparation followed by 175 hours (equivalent of about 5 weeks of full time work) of supervised practicum in a legal environment in the role of legal assistant.
 Prerequisite: Completion of all other requirements with a GPA of 2.0.

Mathematics

Note: Not all courses listed may be offered. Check Course Timetable for availability.

MATH 050-5 (BC=5)
(5-0) 15 weeks
Preparatory Mathematics
 See "Career and Academic Preparation Courses," page 202.

MATH 075-5 (BC=5)
(5-0) 15 weeks
Introductory Algebra
 See "Career and Academic Preparation Courses," page 202.

MATH 085-5 (BC=5)
(5-0) 15 weeks
Intermediate Algebra
 See "Career and Academic Preparation Courses," page 202.

MATH 096-5 (BC=5)
(4-2) 15 weeks
Precalculus: Algebra and Trigonometry
 See "Career and Academic Preparation Courses," page 202.

MATH 097-4 (BC=4)
(3-2) 15 weeks
Elementary Calculus and Modern Mathematics
 See "Career and Academic Preparation Courses," page 203.

MATH 202-3 (BC=4)
(3-2) 15 weeks
Elementary Calculus I
 Review of analytical geometry, differentiation and integration of simple functions, and applications.
 Prerequisite: Math 30-1
Note: You should take MATH 203 if you have at least 70% in Math 31

MATH 203-3 (BC=3)
(3-0) 15 weeks
Elementary Calculus
 Review of analytical geometry, differentiation and integration of simple functions, and applications.
 Prerequisite: Math 30-1 and 31 or the equivalent.
Note: Not recommended if you have less than 70% in Math 31.

MATH 204-3 (BC=3)**(3-1) 15 weeks****Elementary Calculus II**

Differentiation and integration of trigonometric, exponential, and logarithmic functions. Indeterminate forms and improper integrals. Techniques of integration. Applications.

Prerequisite: MATH 202 or 203 or equivalent.

Note: You cannot have credit in both MATH 204 and MATH 213.

MATH 212-3 (BC=4)**(3-2) 15 weeks****Calculus I**

Review of functions and analytic geometry. Trigonometric, logarithmic, exponential and hyperbolic functions. Inverse functions. Limits and continuity. Derivatives and their interpretation. Methods of differentiation and applications. Parametric and polar coordinates and functions.

Prerequisite: Math 30-1 and 31

Note: Designed for Engineering students.

MATH 213-3 (BC=5)**(4-2) 15 weeks****Calculus II**

Integrals and areas: numerical methods and the Fundamental Theorem of calculus. Basic integration methods. Applications of integration to lengths, areas, volumes, and other physical quantities. Advanced integration methods. Differential equations. Infinite series and Taylor expansions.

Prerequisites: MATH 212.

Note: Designed for Engineering students.

MATH 221-3 (BC=3)**(3-0) 15 weeks****Linear Algebra I**

Solving linear systems of equations. Matrix algebra. Determinants, vectors, lines and planes, vector spaces, and applications.

Prerequisite: Math 30-1.

MATH 223-3 (BC=3)**(3-0-1) 15 weeks****Applied Linear Algebra**

Vectors and matrices. Solution of linear equations. Equations of lines and planes. Vector spaces and bases. Determinants. Matrix algebra. Orthogonality and applications (least squares, Gram-Schmidt). Eigenvalues and eigenvectors and applications.

Prerequisite: Math 212

Note: Designed for Engineering Students

MATH 230-3 (BC=3)**(3-0) 15 weeks****Mathematics: Ideas and Applications**

Introduction to logic and set theory. Introduction to mathematical systems, number systems, and related topics. Basic algebra and analytic geometry. Problem solving and word problems. Systems of equations and inequalities. Graphing. Max/min problems. Linear programming. Introduction to probability and statistics. Applications in social and life science.

Prerequisite: Math 30 or equivalent is recommended.

Note: This course is intended for Arts and Humanities students. Not accepted as an option for science majors at the University of Calgary and the University of Lethbridge.

MATH 251-3 (BC=3)**(3-0) 15 weeks****Mathematics of Finance I**

Simple and compound interest. Simple and general annuities certain. Variable annuities and perpetuities. Amortization schedules. Sinking funds. Applications.

Prerequisites: Math 30-1.

MATH 260-3 (BC=3)**(3-0) 15 weeks****Higher Arithmetic**

Critical thinking & problem solving. Tools for problem solving. Numeration systems, system of integers and elementary number theory, modulo mathematics. Rational numbers, ratio and proportion. Introduction to statistics.

Prerequisite: Math 30-1 or Math 30-2 or consent of the Department

Note: This course is restricted to Elementary Education students.

MATH 302-3 (BC=4)**(4-0) 15 weeks****Intermediate Calculus I**

Infinite series. Plane curves and polar coordinates. Vectors and three dimensional analytic geometry. Partial derivatives.

Prerequisite: MATH 204 or equivalent.

MATH 303-3 (BC=4)**(4-0) 15 weeks****Intermediate Calculus II**

First order and second order linear differential equations with constant coefficients. Curves, tangent vectors, and arc length. Integration in two and three dimensions. Polar, cylindrical, and spherical coordinates. Line and surface integrals. Green's divergence and Stoke's theorems.

Prerequisite: MATH 302.

MATH 313-3 (BC=3)**(3-15-0) 15 weeks****Differential Equation**

First order linear and non-linear equations. Linear differential equations with constant coefficients. Laplace Transforms and application. Picard's method. Series solutions.

Prerequisite: MATH 204 or 213 or equivalent.

Co-requisite: MATH 302

Note: Open to Engineering, Agricultural Engineering, B.Sc. in Physics, Geophysics, Computer Science, Geography (Meteorology) and Mathematics students only.

MATH 328-3 (BC=3)**(3-0) 15 weeks****Introduction to Abstract Algebra**

Properties of integers. Permutations. Groups. Lagrange's theorem. Factor groups. Polynomials. Rings. Fields.

Prerequisite: Math 30 and a previous university-level mathematics course.

Medical Lab Assistant

MLA 100-2 (BC=2)**(22 class)****Professional Relations**

This introductory course develops the learner's understanding of the importance of effective interpersonal communication skills and team work in the health care setting. The diverse needs and human relations posed by health care clients are also explored. Students will analyze their personal effectiveness related to wellness and stress management.

MLA 101-1 (BC=1)**)12 class, 12 lab)****Basic Electrocardiography**

This course is designed to provide basic theoretical aspects and the practical experience required to perform electrocardiograms. Includes recording technique, recognition and remedies of artifacts, and basic information on infarct recognition.

MLA 102-1 (BC=1)**(12 class)****Quality Management**

This course is designed to provide a complete overview of methods used to ensure quality patient care. The emphasis will be on quality assurance and quality control technique.

MLA 103-2 (BC=2)
(30 class)
Basic Anatomy and Physiology
This course has been designed to develop a basic understanding of the structure and function of selected systems in the human body.

MLA 104-1 (BC=1)
(17 class)
Medical Terminology
Knowing and using correct terminology is part of effective communication. In health care, the terminology is especially important and needs to be understood by all members of the team. Take your first steps in learning the proper terminology used in health and medical sciences.

MLA 105-2 (BC=2)
(22 class)
Infection Control and Safety
Infection control - it's a hot topic across the world and demands attention in any Health care profession. Learn about the basics, including transmission of microorganisms, immunization practices for healthcare workers, blood-borne pathogens (Hepatitis and HIV), SARS, standard precautions, isolation procedures, sterilization and disinfection, safety and WHIMS.

MLA 106-3 (BC=3)
(30 class, 30 lab)
Blood Collection & Handling
This course provides information and practical experience on the suitability, collection, handling and transportation of blood specimens to help ensure quality laboratory results. Emphasis will be placed on collection of blood samples from adults, children and infants. A variety of collection techniques for venipuncture and capillary puncture will be covered. Professionalism and excellent client service will be stressed throughout this course. The students will be introduced to a Laboratory Information System (LIS).

MLA 107-2 (BC=2)
(22 class, 14 lab)
Introduction to General Laboratory Procedures
This course provides the theory and practice required to perform basic procedures within the clinical laboratory. Laboratory glassware and pipettes, microscopes, basic laboratory equipment, and reagent preparation with related mathematical calculations will be covered.

MLA 108-2 (BC=2)
(32 class, 18 lab)
Introduction to Medical Laboratory Testing
This course provides the student with a better understanding of the different departments in a clinical laboratory and the medical laboratory procedures associated with each. Emphasis will be placed on the definition, terminology and purpose of selected medical laboratory tests. The practical component of this course includes basic procedures in Hematology, Microbiology, Anatomic Pathology, and Cytology.

MLA 109-2 (BC=2)
(26 class, 10 lab)
Miscellaneous Specimen Processing
This course introduces students to different types of specimens analyzed in the laboratory, including urine, stool (fecal), tissue, sputum, and other body fluids. Students will learn how to instruct patients properly to provide such specimens as required. Theoretical background and practical experience will be provided in the preparation of specimens for analysis. These procedures include specimen sorting, accessioning (data entry), checking specimen suitability, centrifugation, aliquoting, and delivery of specimens to appropriate laboratory departments.

MLA 110-2 (BC=2)
(20 class, 22 lab)
Urinalysis
The examination of urine provides a wide variety of useful medical information regarding diseases of the urinary tract as well as certain systemic diseases that produce quantitative alterations of urine constituents or the excretion of abnormal substances. Macroscopic (chemical) and microscopic evaluation of urine constituents will be learned.

MLA 115-8 (BC=8)
(40 lab, 240 Practicum)
Clinical Practicum
Simulation lab and an unpaid practicum focused on practical experience in settings where staffing includes Medical Laboratory Assistants. Experience is provided at collection sites, rapid response laboratories and acute care sites. Travel to rural locations or to Edmonton to complete all or portions of the practicum experience may be required.

Microbiology

MICR 365-3 (BC=4)
(3-0-3) 15 weeks
General Microbiology II
Nutrient uptake, metabolism, extracellular proteins, chemotaxis, and differentiation. The eukaryotic microbes, their ecological roles, and eukaryotic cell culture. The interactions environment and symbiotic relationships. Basic principles of industrial microbiology. The use of biotechnology for producing economically and medically important substances. Laboratory exercises deal with topics related to the lecture material.
Prerequisite: BIOL 217 and CHEM 251 or CHEM 351

Motion Picture Arts

MPA 301-3 (BC=3)
(3-0) 15 weeks
Motion Picture Fundamentals I
Development of knowledge of all aspects of live action motion picture production. Includes development of basic competence in production, direction and communication.

MPA 302-3 (BC=3)
(3-0) 15 weeks
Motion Picture Fundamentals II
Further development of knowledge in aspects of live action motion picture production.

MPA 303-3 (BC=3)
(3-0) 15 weeks
Motion Picture Business/Career Path
An examination of film financing, budgeting, scheduling and distribution. Included is entertainment law and the societal and political context of the Canadian film industry. Students will establish contacts with appropriate unions, agents and develop self-promotional strategies.

MPA 304-3 (BC=3)
(3-0) 15 weeks
Screenwriting Techniques
Provides a practical introduction to appropriate formats and techniques for screenwriting, and includes narrative forms and structure, character and story throughlines. Students will apply their knowledge and skills to short screenwriting projects.

MPA 305-3 (BC=3)**(3-0) 15 weeks****Motion Picture Directing**

Director's responsibilities, strategies, and skills including technical aspects of production and analysis of scripts. Knowledge and skills will be used to direct performers and crew in scene work.

MPA 311-3 (BC=3)**(3-0) 15 weeks****Motion Picture Technology**

Knowledge and maintenance and operational skills in production and post-production technologies such as analog and digital imaging systems, film/video transfer systems, compositing, etc. Explore emerging production technologies such as motion control.

Prerequisite: MPA 315

MPA 312-3 (BC=3)**(3-0) 15 weeks****Audition Techniques**

Emphasis is on the knowledge, strategies, and skills needed for professional auditions. Students will develop a professional resume, photograph, and industry standard reels/tapes/DVD.

Prerequisite: MPA 317

MPA 315-4 (BC=4)**(3-3) 15 weeks****Motion Picture Production I**

Skill development in cinematography, camera operation, lighting, editing, sound, and production management. Flexibility and learning skills needed to acquire specialized expertise is emphasized.

MPA 316-4 (BC=4)**(3-3) 15 weeks****Motion Picture Production II**

Further development in cinematography, camera operation, lighting, editing, sound and production management.

Prerequisite: MPA 315

MPA 317-4 (BC=4)**(3-3) 15 weeks****Motion Picture Acting I**

Knowledge of terminology, set etiquette, set directions and the roles and functions of other film personnel. Opportunities to practice performance on camera using effective vocal and physical character traits. Emphasis is on developing a confident poise for on camera and audio recording.

MPA 318-4 (BC=4)**(3-3) 15 weeks****Motion Picture Acting II**

Emphasis is on advancing knowledge and skills developed in Film Acting I in order to believably perform scenes of emotional intensity. Performance skills for various motion picture media and specific genre requirements will be developed.

Prerequisite: MPA 317

MPA 320-4 (BC=4)**(0-12) 15 weeks****Motion Picture Projects I**

Application of knowledge and skills to initiate, develop and produce media projects from concept to completion. Team skills, integrity, self-confidence, initiative, and professionalism are integral to success.

MPA 321-4 (BC=4)**(0-12) 15 weeks****Motion Picture Projects II**

Further application of knowledge and skills to develop media projects from concept to completion. Team skills, integrity, self-confidence, initiative and professionalism are integral to success.

Prerequisite: MPA 320

MPA 403-15 (BC=10)**(0-35) 15 weeks****Applied Motion Picture Practicum I**

The first term of a two-term mentored practicum. This involves: 1) The production of a substantial motion picture project (including concept, production, postproduction, marketing and promotion) with access to College equipment and facilities; and/or 2) work experience in the motion picture industry, with a combination of paid work, auditions, workshops, etc. accumulated under the guidance of MPA staff.

Prerequisite: Completion of 3rd year of the MPA program.

MPA 404-15 (BC=10)**(0-35) 15 weeks****Applied Motion Picture Practicum II**

The second term of a two-term mentored practicum. This involves: 1) The production of a substantial motion picture project (including concept, production, postproduction, marketing and promotion) with access to College equipment and facilities; and/or 2) work experience in the motion picture industry, with a combination of paid work, auditions, workshops, etc. accumulated under the guidance of MPA staff.

Prerequisite: MPA 403

Please refer to Degree Completion Program Section for Year 4 of the Bachelor of Applied Motion Picture Arts Degree.

Music

Note: Not all courses listed are offered every semester or every year. Check Course Timetable for availability.

Performance Ensembles (2 cr/semester)**(BC=2)****(0-3) 15 weeks**

The study and performance of standard and current literature appropriate to the specific vocal or instrumental ensemble. Membership is limited and is by audition. Scheduled public performances are generally a part of each ensemble experience. All ensembles are offered on a corequisite basis only, eg. students must be registered in the same ensemble sequence for both Fall and Winter semesters (eg. 201 Fall/202 Winter), unless special permission is granted by the Department. The first semester is normally prerequisite to the second.

Note: All ensembles are open (by audition) to students from all departments in the college.

Note: *Check the Alberta Transfer Guide for specific transfer information for MUSE courses marked with an asterisk*.

**MUSE 201, 202, 301, 302, 351, 352
Symphonic Winds* I, II, III, IV, V, VI**

A concert band that rehearses and performs wind literature representing traditional and contemporary styles, with priority given to important European and North American stylistic periods. Emphasis is placed on learning musicianship through the stylistic diversity of selected repertoire. The choice of repertoire will also consider the literature available to future educators in the secondary school setting.

Note: Not eligible for challenge.**MUSE 203, 204, 303, 304, 353, 354
Concert Choir* I, II, III, IV, V, VI**

A wide range of quality traditional and contemporary choral music is performed in a mixed choir of approximately 40 members. The integration of personal musical development with the principles of group work and the development of blend are important aspects of the course.

Note: Not eligible for challenge.

**MUSE 205, 206, 305, 306, 355, 356
Jazz Ensemble* I, II, III, IV, V, VI**

A jazz band that rehearses and performs music characteristic of the big band era as well as literature of the modern day jazz ensemble. Students will explore the various styles within this genre and develop improvisational skills required for this idiom.
Note: Not eligible for challenge.

**MUSE 207, 208, 307, 308, 357, 358
Jazz Choir* I, II, III, IV, V, VI**

This vocal ensemble will help you learn how to perform Jazz, Swing and Popular music in the style appropriate to each.

**MUSE 209, 210, 309, 310, 359, 360
Orchestra* I, II, III, IV, V, VI**

Selected woodwind, brass, string, and percussion students who are playing at advanced levels may arrange an audition with the conductor of the Red Deer Symphony Orchestra. This is a professional orchestra which draws players from across the province.

Note: Not eligible for challenge.

**MUSE 211, 212, 311, 312, 361, 362
Jazz Combo* I, II, III, IV, V, VI**

Students work together in small groups to create arrangements of both old and new jazz tunes. Weekly coaching sessions introduce various ideas and exercises to enhance both improvisational ability and an understanding of jazz as a specific style.

Note: Not eligible for challenge.

**MUSE 213, 214, 313, 314, 363, 364
Contemporary Styles I, II, III, IV, V, VI**

Bands are formed within the class and are used as structured lab settings to explore the fundamental elements of important styles such as rock and roll, country, Latin, and alternative.

Note: Not eligible for challenge.

**MUSE 215, 216, 315, 316, 365, 366
Chamber Winds I, II, III, IV, V, VI**

Small group study of literature for wind ensembles. Depending upon the instrumentation, repertoire may incorporate combinations of brass and woodwinds ranging from duo to octet. Performance opportunities for various ensembles are available in the acoustic noon recitals and other performances both on and off campus.

Note: Not eligible for challenge.

**MUSE 217, 218, 317, 318, 367, 368
Chamber Choir I, II, III, IV, V, VI**

This ensemble is geared towards the experienced singer and will explore advanced choral literature in both traditional and contemporary genres. Enrolment is limited to approximately 16-24 members. Specific goals include gaining experience performing choral music in front of a live audience, building a varied repertoire of music, and learning the principles of group work and integrating these principles with individual skills.

Note: Not eligible for challenge.

**MUSE 219, 220, 319, 320, 369, 370
Chamber Ensemble* I, II, III, IV, V, VI**

The focus is on the rehearsal and performance of acoustic, classical music for small groups of two to four players or singers. The makeup of the ensemble or ensembles will vary depending on the interests and skills of those enrolled.

Note: Not eligible for challenge.

**MUSE 221, 222, 321, 322, 371, 372
Percussion Ensemble* I, II, III, IV, V, VI**

Rehearsal and performance of percussion ensemble literature that will be arranged for various combinations of the following instruments: marimba, xylophone, vibraphone, drum set, congas, snare drum, timpani, etc.

Prerequisite: Audition

Note: Not eligible for challenge.

**MUSI 194-3 (BC=3)
(3-0) 15 weeks**

Introductory Music Theory I

For students with little or no formal music theory background who have interest in understanding the rudiments of music notation or who are preparing to enter the Music Diploma program. Designed to give students a basic working knowledge of music reading through the study of pitch and rhythm notation, scales, key and time signatures, intervals, and relevant terminology.

MUSI 195-2 (BC=2)

(2-0) 15 weeks

Introductory Aural Skills I

For students with little or no formal aural skills training who have interest in improving their musicianship or who are preparing to enter the Music Diploma program. Emphasis will be placed on the identification by ear and sight of melodies, rhythms and harmonies. Music dictation and elementary sight-singing will be an integral aspect of the course.

**MUSI 196-3 (BC=3)
(3-0) 15 weeks**

Introductory Music Theory II

Skills and knowledge gained in MUSI 194 will form the basis for more extensive work in music reading, chord building, and cadence construction.

Prerequisite: MUSI 194 or consent of Department Chair.

**MUSI 197-2 (BC=2)
(2-0) 15 weeks**

Introductory Aural Skills II

Skills and knowledge gained in MUSI 195 will form the basis for more extensive work in melodic and harmonic dictation, interval recognition and sight-singing.

Prerequisite: MUSI 195 or consent of Department Chair.

**MUSI 203-3 (BC=3)
(3-0) 15 weeks**

Computer Music Technology

Practical techniques, theory and applications for computer-based multitrack MIDI sequencing and multitrack digital audio, synthesizers, samplers, sound design, special effects processing, and computer music notation and printing. Survey of applications for live music and theatre performances, as well as music, video and film studios.

Note: This course is for music students as well as musicians who are not in the music diploma program. Department consent is required.

**MUSI 210-6 (BC=6)
(3-1) 30 weeks**

Fundamentals of Music and Method in Education for Non-Music Majors

A dynamic and practical introduction to music teaching techniques and fundamentals for the student interested in teaching elementary or middle-school aged children. Taught as a survey course and includes introductory keyboard, guitar and various other instruments. Former experience in music is not required.

**MUSI 213-3 (BC=3)
(3-1) 15 weeks**

Fundamentals of Music and Method in Education I

A dynamic and practical introduction to music teaching techniques and fundamentals for the student interested in teaching elementary or middle-school aged children. Topics include music theory, music appreciation and singing as well as an introduction to the keyboard and recorder.

Correlates with the Alberta Learning Curriculum. Former experience in music is not required.

Co-requisite: MUSI 213 lab

MUSI 214 (BC=3)

(3-1) 15 weeks

Fundamentals of Music and Method in Education II

A continuation of MUSI 213 with an added emphasis on lesson planning and music teaching philosophy and techniques including Orff and Kodaly methods. Includes an introduction to the guitar and other classroom instruments.

Co-requisite: MUSI 214 lab

Prerequisite: MUSI 213

MUSI 233-3 (BC=3)

(3-0) 15 weeks

Introduction to Music History

A survey of Western Music from Antiquity through the 20th Century. Through lecture, listening, and basic score examination, students will explore the traditions and practices that have culminated in both the art music and popular music idioms which exist today.

MUSI 234-3 (BC=3)

(3-0) 15 weeks

Masterworks of Music

Elements that shape and enrich the musical art: basic musical concepts, instruments, forms and styles, genres, and historical implications.

Prerequisite: MUSI 233.

MUSI 241-2 (BC=2)

(2-0) 15 weeks

Basic Piano I

Piano technique, scales, and keyboard harmony. Emphasis is on developing a repertoire of easy to moderate piano pieces to enhance the keyboard as a useable musical tool.

Prerequisite: Ability to read music and a basic skill in voice or an instrument other than the piano.

MUSI 242-2 (BC=2)

(2-0) 15 weeks

Basic Piano II

Skills acquired in MUSI 241 will be refined and expanded. Particular emphasis will be placed on keyboard fluency, fingering, and music reading.

Prerequisite: MUSI 241 or consent of the Department Chair.

MUSI 257-3 (BC=3)

(3-0) 15 weeks

Comprehensive Music Theory I

Music rudiments review (scales, intervals, chords, rhythms), non-harmonic tones, cadences, introduction to harmonic progression and voice-leading principles, and melodic construction.

Prerequisite: Successful completion of the Theory Placement Exam or equivalent.

MUSI 258-3 (BC=3)

(3-0) 15 weeks

Comprehensive Music Theory II

Harmonic analysis, harmonic progression, and four-part writing techniques for diatonic chords, seventh chords, secondary dominant chords, leading-tone chords, and modulation; binary and ternary musical forms.

Prerequisite: MUSI 257

MUSI 259-3 (BC=3)

(3-0) 15 weeks

Comprehensive Aural and Keyboard Skills I

The aural study of music theory concepts covered in MUSI 257 using sight-singing, dictation, and keyboard harmony.

Prerequisite: Successful completion of the Theory Placement Exam or equivalent.

MUSI 260-3 (BC=3)

(3-0) 15 weeks

Comprehensive Aural and Keyboard Skills II

The aural study of music theory concepts covered in MUSI 258 using sight-singing, dictation, and keyboard harmony.

Prerequisite: MUSI 257 and 259

Prerequisite or Co-requisite: MUSI 258

MUSI 280-3 (BC=3)

(3-1) 15 weeks

Recording Studio Technology I

An introduction to the recording studio and to basic recording engineering on a digital audio workstation. Mixing theory, equipment theory and operation, and actual performance toward a finished recording.

Prerequisite: Enrolment in Music Diploma or consent of the Department.

MUSI 282-3 (BC=3)

(3-0) 15 weeks

Recording Studio Technology II

MUSI 280 continued. The study of advanced mixing and recording techniques, computer audio editing and refinement of skills towards additional projects.

Prerequisite: MUSI 280.

MUSI 301-3 (BC=3)

(3-0) 15 weeks

History of Classical and Romantic Music

A performance-lecture survey of the styles, composers, and performers of the Classical and Romantic periods of music history.

Prerequisite: MUSI 233 or 202

Note: Skill in music reading is an asset.

MUSI 302-3 (BC=3)

(3-0) 15 weeks

History of Post-Romantic and 20th Century Music

A performance-lecture survey of the styles, composers, and performers of the post-Romantic and 20th century periods of music history.

Prerequisite: MUSI 233 or 301

Note: Skill in music reading is an asset.

MUSI 303-3 (BC=3)

(3-0) 15 weeks

History of Popular Music

A survey of the history and evolution of popular music. Topics will include the history of jazz, the roots of rock and roll, the British Invasion, Latin influences, techno, pop music, and urban trends.

Prerequisite: MUSI 233 or 302

MUSI 304-3 (BC=3)

(3-0) 15 weeks

History of Medieval, Renaissance and Baroque Music

A performance-lecture survey of the styles, composers, and performers of the Medieval, Renaissance and Baroque periods of music history.

Prerequisite: MUSI 233

Note: Skill in music reading is an asset.

MUSI 321-5 (BC=5)

(4-3) 15 weeks

Music Business: Career and Products

A study of the business of music as it pertains to music products and the retail industry, with emphasis on product areas, marketing and sales. Throughout the practicum portion, the students will participate in "hands-on" approaches to a variety of marketing and production situations. Students will be expected to complete a minimum of 45 practicum hours (20 hours must be in the area of retail music in order to attend the NAMM Show in January).

Prerequisite: 2nd year Music Diploma student or consent of the Department.

MUSI 322-5 (BC=5)
(4-3) 15 weeks
Music Business: Performance
 A study of the business of music as it pertains to the performing musician, with emphasis on booking, touring, and the recording industry. Throughout the practicum portion, the students will participate in "hands-on" approaches to a variety of marketing and production situations. Students will be expected to complete a minimum of 45 practicum hours (20 hours must be in the area of performance, booking, and/or tours). Prerequisite: Music Diploma student or consent of the Music Department.

MUSI 346-3 (BC=3)
(3-0) 15 weeks
Comprehensive Music Theory III
 Review of harmonic progression and voice-leading principles employed in the 17th and 18th centuries; harmonic analysis, harmonic progression, and four-part writing techniques for 19th-century music including borrowed chords, Neapolitan 6th chords, augmented 6th chords, and modulation techniques; analysis of major musical forms (sonata, rondo, and theme and variations). Prerequisite: MUSI 250 or MUSI 258

MUSI 347-3 (BC=3)
(3-0) 15 weeks
Comprehensive Music Theory IV
 Analysis and part writing techniques incorporating extended and chromatic harmonies from the 19th and 20th centuries (9th, 11th, and 13th chords, altered dominants, chromatic mediant, coloristic chords, quartal chords, polychords), and serialism. Prerequisite: MUSI 346

MUSI 348-3 (BC=3)
(3-0) 15 weeks
Comprehensive Aural and Keyboard Skills III
 The aural study of music theory concepts covered in MUSI 346 using sight-singing, dictation, and keyboard harmony. Prerequisite: MUSI 250 & 251; or MUSI 258 & 260 Prerequisite or Co-requisite: MUSI 346

MUSI 349-3 (BC=3)
(3-0) 15 weeks
Comprehensive Aural and Keyboard Skills IV
 The aural study of music theory concepts covered in MUSI 347 using sight-singing, dictation, and keyboard harmony. Prerequisite: MUSI 346 and 348 Prerequisite or Co-requisite: MUSI 347

MUSI 357-3 (BC=3)
(3-0) 15 weeks
Contemporary Theory III
 MUSI 257/258 continued. Third term theory. This course is practical in content, scope, and approach. It is meant to assist the 'working' musician in applying fundamentals. Prerequisite: MUSI 250 or 258.

MUSI 358-3 (BC=3)
(3-0) 15 weeks
Contemporary Theory IV
 MUSI 357 continued (fourth term theory). Prerequisite: MUSI 357.

MUSI 359-3 (BC=3)
(0-3) 15 weeks
Contemporary Aural Skills III
 Third term aural study of materials in MUSI 357. Prerequisite: MUSI 250 and 251; or MUSI 258 and 260 Prerequisite or Co-requisite: MUSI 357

MUSI 360-3 (BC=3)
(0-3) 15 weeks
Contemporary Aural Skills IV
 Fourth term aural study of materials in MUSI 358. Prerequisite: MUSI 357 and 359 Prerequisite or Co-requisite: MUSI 358

MUSI 361-3 (BC=3)
(3-0) 15 weeks
Composition I
 Development of basic composition skills. Principles of orchestra, band, choral, and popular instrument writing. Concepts and practices of MIDI workstation and computer assisted composition. Prerequisite: B or better in MUSI 250 and 251; or MUSI 258 and 260

MUSI 362-3 (BC=3)
(3-0) 15 weeks
Composition II
 Second term study of the MUSI 361 course. Emphasis is on extended compositions and workstation/computer use. Prerequisite: MUSI 361.

MUSI 397-4 (BC=4)
(1-2) 30 weeks
Performance Practicum
 Offered over the fall and winter terms. Activities depend on your area of study. Prerequisite: Minimum of 29 first-year credits completed. Co-requisite: MUSP 360/460.

MUSI 398-4 (BC=4)
(1-2) 30 weeks
Theory Practicum
 Offered over the fall and winter terms. Activities depend on your area of study. Prerequisite: Minimum of 29 first-year credits completed. Co-requisite: MUSI 361/362

MUSI 400-3 (BC=3)
(120 hours) Includes 10 hours lecture
Merchandising Practicum II
 The student will be required to intern in a particular area of the Music Industry as it pertains to their individual career focus. Examples of placements may include such things as touring, sales, or private studio teaching. Possible options must be approved by the Merchandising instructor well in advance of the proposed placement. Prerequisite: MUSI 322 or consent of the Department. Note: This course will be evaluated using a credit/no-credit grading system.

MUSI 401-2 (BC=2)
(2-0) 15 weeks
Graduation Recital
 A public recital/concert of at least thirty minutes in length. The program should consist of material studied during the student's time as a Music Diploma student. A combination of solo and ensemble material is acceptable as appropriate to the student's major instrument of study and upon approval of the student's instructor. Co-requisite: MUSP 460

MUSP 145-3 (BC=3)
(1-0) 15 weeks
Principal Instrument Study I
 Fifty-five minute weekly private lessons in a principal musical instrument or voice. Emphasis is on technique, style, musicianship, and interpretation, and on developing repertoire and performance experience. Prerequisite: Open to Music Diploma students by successful performance audition. Note: Not eligible for challenge.

MUSP 245-3 (BC=3)
(1-0) 15 weeks
Principal Instrument Study II
 MUSP 145 continued. Prerequisite: MUSP 145 Note: Not eligible for challenge.

MUSP 360-3 (BC=3)
(1-0) 15 weeks
Principal Instrument Study III
 MUSP 245 continued.
 Prerequisite: MUSP 245
 Note: Not eligible for challenge.

MUSP 460-3 (BC=3)
(1-0) 15 weeks
Principal Instrument Study IV
 MUSP 360 continued.
 Prerequisite: MUSP 360
 Note: Not eligible for challenge.

MUSS 145-2 (BC=2)
(1-0) 15 weeks
Secondary Instrument Study
 Forty-five minute weekly private lessons in instrument or voice. Emphasis is on technique and musicianship. May be repeated for credit.
 Note: MUSS private lessons are open (by audition) to students from all departments in the college.
 Note: Not eligible for challenge.

Nursing

(Open to Nursing students only.)

***NURS 215-3** (BC=3)
(3-0) 15 weeks
Anatomy
 A survey of the structure of the human body.

***NURS 270-3** (BC=3)
Integrated Psychology I
 Introductory psychology concepts integrated into nursing through context based learning.

***NURS 271-3** (BC=3)
Integrated Psychology II
 Continuation of the study of psychology concepts integrated into nursing through context based learning.
 Prerequisite: NURS 270

***NURS 272-3** (BC=3)
Integrated Sociology I
 Introductory sociology concepts integrated into nursing through context based learning.

***NURS 273-3** (BC=3)
(3-0) 15 weeks
Integrated Medical Microbiology
 Relevant medical microbiology concepts integrated into nursing through context based learning.

***NURS 274-6** (BC=6)
Integrated Physiology
 Physiology of humans integrated into nursing through context based learning.

NURS 280-5 (BC=5)
(6-4S-3) 7 weeks
Nursing in Context A
 Introduction to the professional discipline of nursing, communication theory, and context based learning. The primary health care emphasis is on health promotion and disease prevention across the life span. Restoration and rehabilitation will be introduced. Health assessment and basic nursing skills will be introduced.

NURS 281-5 (BC=5)
(3-0-15) 7 weeks
Nursing Practice I
 Beginning nursing practice with a focus on health promotion and interaction with clients across the life span in a variety of non-traditional settings.
 Prerequisite: NURS 280

NURS 284-5 (BC=5)
(6-4S-3) 7 weeks
Nursing in Context A1
 A continuation of the study of concepts introduced in NURS 280 with a focus on teaching and learning principles and increased health assessment and basic nursing skills.
 Prerequisites: NURS 280, 281

NURS 285-6 (BC=6)
(3-0-24) 7 weeks
Nursing Practice II
 Nursing practice includes health status assessment of clients and appropriate health promotion and disease prevention interventions. Practice occurs in settings where clients live or in community agencies (non-acute) where services to clients are offered.
 Prerequisites: NURS 280, 281

NURS 380-5 (BC=5)
(6-4S-3) 7 weeks
Nursing in Context B
 Within the context of primary health care, the focus shifts to restoration, rehabilitation and support of clients experiencing chronic and less acute variances in health. Discussion related to health promotion and disease prevention continues. Intermediate health assessment and nursing skills will be introduced.
 Prerequisites: NURS 284, 285

NURS 381-7 (BC=7)
(3-0-28) 7 weeks
Nursing Practice III
 Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients with chronic and less acute variances in health across the life span. Practice will occur primarily in primary level acute care centres and continuing care agencies.
 Prerequisites: NURS 284, 285

NURS 384-5 (BC=5)
(6-4S-3) 7 weeks
Nursing in Context B1
 Continuation of NURS 380 with increasing situational complexity.
 Prerequisites: NURS 380 and 381 or 385 or permission of chair

NURS 385-7 (BC=7)
(3-0-28) 7 weeks
Nursing Practice IV
 Practice focuses on health across the life-span in child-birth facilities, homes, community health clinics, schools and other community based settings. Integration of the concepts of primary health care, health promotion & disease prevention and determinants of health are examined in the community context.
 Prerequisites: NURS 284, 285

NURS 390-5 (BC=5)
(6-4S-3) 7 weeks
Nursing in Context C
 Within the context of primary health care focus is on restoration, rehabilitation and support of clients experiencing more acute variances in health. Discussion related to health promotion and disease prevention continues. Advanced health assessment and nursing skills will be introduced.
 Prerequisites: NURS 215, 274, 381, 384, 385

NURS 391-7 (BC=7)
(3-0-28) 7 weeks
Nursing Practice V
 Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients experiencing more acute variances in health across the life span. Practice will occur in primary, secondary and tertiary level acute care settings.
 Prerequisites: NURS 215, 274, 381, 384, 385

NURS 394-5 (BC=5)

(6-4S-3) 7 weeks

Nursing in Context C1

Continuation of NURS 390 with increasing situational complexity. Credit is given for Health Assessment upon successful completion of the term.

Prerequisites: NURS 390 and 391 or 395 or permission of the chair.

NURS 395-7 (BC=7)

(3-0-28) 7 weeks

Nursing Practice VI

This clinical course provides students with opportunity to work with clients experiencing mental health issues and/or addictions. Students have an opportunity to develop therapeutic relationships with clients, families, groups and/or aggregates to recognize community as client. Nursing practice over a continuous block of time occurring in a variety of settings.

Prerequisites: NURS 215, 274, 381, 384, 385

Note: Not eligible for challenge.

4th Year University of Alberta Degree Completion Nursing Courses (from the University of Alberta Calendar)

Note: Students are required to complete all 3rd year courses in order to proceed to the 4th year of the program.

NURS 301-3 (BC=3)

(3-0) 15 weeks

Nursing Research

Introduction to the process of research through a comparative analysis of selected studies exemplifying different theoretical, methodological, and analytical approaches. Emphasis is on the communicability of research, the needs of the research consumer, and the development of skills of critical appraisal.

Prerequisite: NURS 304

NURS 304-3 (BC=3)

(3-0) 15 weeks

Using and Interpreting Statistics for Nursing Research

An introduction to reading, understanding and interpreting commonly used statistics in published health sciences research. Provides hands-on approach to understanding measurement, sampling, and common statistical analysis techniques through critical appraisal of results from published health care studies.

NURS 461-7 (BC=7)

(0-1S-34c) 10 weeks

Nursing Practice VII, Internship Route

During a Spring/Summer placement of 10 weeks in a sponsoring agency, the student will manage and care for clients in ambiguous, complex situation.

Prerequisites: NURS 390, 391, 394, 395, and 396 or 301. Consent of the Faculty is also required.

NURS 490-5 (BC=5)

(6-6S-3) 7 weeks

Nursing in Context D

A comprehensive approach to primary health care components in the care of clients in complex, ambiguous situations. Case management and multidisciplinary leadership skills are emphasized. Students may have the opportunity to lead a multidisciplinary student group.

Prerequisites: NURS 301, 391, 394, 395

NURS 491-7 (BC=7)

(3-2-26) 7 weeks

Nursing Practice VII

Management and care of clients in ambiguous, complex situations occurring over a variety of settings.

Prerequisites: NURS 301, 391, 394, 395

Prerequisites or Corequisite: NURS 490

NURS 494-3 (BC=3)

(6-0-3) 4 weeks

Nursing in Context D1

Synthesis and focus of nursing knowledge and application of nursing research in a specified area of practice. To be permitted to enroll in this course, students must have passed all courses of their nursing program, except the co-requisite NURS 495.

NURS 495-9 (BC=9)

(1-0-34) 10 weeks

Nursing Practice VIII

Comprehensive and consolidated approach to professional practice of nursing in an area of special interest to the student.

Co-requisite: NURS 494

Occupational Therapist & Physiotherapist Assistant

OPTA 102-4 (BC=5)

(45 lecture, 45 lab)

Presenting Conditions I

Fundamentals of the structure and function of the musculoskeletal system with application to a selection of disabling conditions based on broad diagnostic categories and encompassing musculoskeletal conditions specific to all populations.

Prerequisites: OPTA 116, 125

OPTA 105-3 (BC=4)

(30 lecture, 30 lab)

Professional Communication I

Development of verbal and non-verbal communication and active listening skills relative to rehabilitation and social situations. Health care issues related to privacy, communication, and inter-professional collaboration are addressed in relation to team building, conflict resolution, professionalism, teaching and learning.

OPTA 106-3 (BC=4)

(30 lecture, 30 lab)

Professional Communication II

Development of communication skills, individually and in group settings, exploring the relationship between values, beliefs and effective interpersonal communication in a variety of therapeutic and healthcare settings. Learners will develop and use effective communication techniques that demonstrate personal awareness, empathy, respect and active listening skills.

Prerequisite: OPTA 105

OPTA 110-2 (BC=2)

(30 lecture)

Professional Practice I

Understand the diversity of roles within the health care system by comparing medical models and the rehabilitation model of care. Explain and discuss the principles that guide rehabilitation and become familiar with the organization of the provincial and federal health care systems as well as the roles, responsibilities and interpretations of health professionals.

OPTA 114-3 (BC=3)
(45 lecture)**Concepts in Mental Health**

Introduction to mental health and illness in particular, psychiatric disability both as a primary diagnosis and as a secondary diagnosis in the case of those with a physical disability. Familiarization with characteristics of psychiatric disability, general management of common disorders, service provision and mental health practice through a client-centered approach.

Prerequisites: OPTA 105; PSYC 205

OPTA 116-4 (BC=4)
(60 lecture)**Anatomy & Physiology**

An introduction to the normal structure and function of the human body using a systematic approach.

OPTA 120-6 (BC=6)
(60 lecture, 45 lab)**Therapeutic Skills I**

Application of therapeutic activities/interventions to promote performance for treating patients/clients who possess impairments resulting from musculoskeletal disorders. Principles of activity selection, planning and application will be applied to related functional disabilities. The use of assistive devices to enable functional independence will also be addressed.

Prerequisites: OPTA 116, 105, 125

OPTA 125-3 (BC=5)
(45 lecture, 30 lab)**Rehabilitation Concepts**

An introduction to rehabilitation concepts that are applied across the life span. Health status, wellness, and influencing factors are examined with a concurrent review of health care and the services provided. Includes the basic theories and rationale of therapeutic interventions for treating patients/clients due to musculoskeletal disorders.

OPTA 130-2 (BC=2)
(90 hours)**Practicum I**

An introduction to the professional rehabilitation environment providing applied experiences in the area of musculoskeletal injuries.

Prerequisites: OPTA 102, 106, 114, 120

OPTA 202-4 (BC=5)
(45 lecture, 30 lab)**Presenting Conditions II**

Fundamentals of neurological structures focusing on the central and peripheral nervous system with application to a selection of disabling conditions based on broad diagnostic categories and encompassing neurological conditions specific to all populations. Course also includes discussion of the basic concepts of function, health, and disease processes related to these systems.

Prerequisites: OPTA 102, 120

OPTA 210-3 (BC=3)
(45 lecture)**Professional Practice II**

Ethical issues in occupational therapy and physiotherapy will be explored along with documenting therapeutic interventions involving the recording of relevant client information accurately and effectively. Using OSCE (objective structured clinical examination) students will be assessed in the areas of musculoskeletal, neurological, mental health and cardio-respiratory rehabilitation in a variety of the therapeutic environments.

Prerequisite: OPTA 110

OPTA 215-2 (BC=2)
(30 lecture)**Communication Impairment**

A review of communication challenges associated with neurological and sensory impairments that inhibit effective communication. Focus is on practical skills that will enhance communication with people who have speech and language impairment.

OPTA 220-6 (BC=6)
(60 lecture, 45 lab)**Therapeutic Skills II**

Theory and the application of therapeutic strategies/interventions employed in the rehabilitative treatment of adult patients/clients with motor and/or sensory impairments resulting from a neurological and/or mental health disorder. Application of a variety of intervention strategies to promote functional independence, occupation performance and active living.

Prerequisites: OPTA 102, 120

OPTA 230-4 (BC=4)
(180 hours)**Practicum III**

Applied theory to further develop skills related to neurological rehabilitation and/or mental health. Application of and expansion upon a variety of intervention strategies working with clients presenting a neurological and/or mental health condition.

Prerequisites: OPTA 202, 215, 220

OPTA 302-4 (BC=5)
(45 lecture, 30 lab)**Presenting Conditions III**

Fundamental of normal physiological function and disorder. This includes an overview of the endocrine and lymphatic systems, as related to the structure and function of the cardiovascular and respiratory systems and disabling conditions specific to pediatric, adult and geriatric populations.

Prerequisites: OPTA 102, 202

OPTA 320-6 (BC=6)
(60 lecture, 45 lab)**Therapeutic Skills III**

Theory and application on how to improve functional abilities and prevent further disability of clients with circulatory, respiratory and endocrine disorders. Includes physiological aspects of the disease processes and its impact on functional performance. Introduction and application of intervention strategies to assist clients to achieve optimal functional independence.

Prerequisites: OPTA 202, 220

OPTA 330-5 (BC=6)
(230 hours)**Practicum III**

Application of accumulated knowledge and skills in a variety of complex rehabilitation environments to further understand and promote their role as an OTA/PTA

Prerequisites: OPTA 210, 302, 320

Office Administration

OADM 100-3 (BC=3)
(3-0) 15 weeks**Information Processing**

This is a hands on introduction to computer concepts, systems, and terminology using Microsoft Windows and Word. Course work covers electronic file management and basic Word skills.

OADM 101-3 (BC=3)
(3-0) 15 weeks
Spreadsheet Fundamentals
This course will provide students with hands-on training in the basic/intermediate operations of Microsoft Excel. Topics covered include creating and formatting worksheets and charts, writing formulas, performing what-if analysis, and using financial functions.

OADM 102-3 (BC=3)
(3-0) 15 weeks
Computer Essentials
Learn how to create a database, research topics using the Internet, identify the basic components of a computer system, troubleshoot hardware and software problems, prepare an electronic presentation, and use a variety of Internet and distance delivery tools.

OADM 110-3 (BC=3)
(3-0) 15 weeks
Document Processing I
For those with little or no previous keyboarding skills. Learn to touch key the alphabetic keyboard. Emphasis is on building skills through proper technique.

OADM 111-3 (BC=3)
(3-0) 15 weeks
Document Processing II
OADM 110 continued. Emphasis on building speed and accuracy and on the production of mailable business correspondence. A variety of advanced Word features are explored including mail merge, sorting and selecting, fill-in forms, tables, and columns to produce visually appealing and professional-looking documents.
Prerequisite: OADM 100, 110

OADM 126-6 (BC=6)
(6-0) 15 weeks
Basic Accounting
Learn the fundamentals of accounting through hands-on experience. Apply accounting principles in manual and automated environments.

OADM 130-3 (BC=3)
(3-0) 15 weeks
Office Systems I
Learn current office practices in records management, handling telephone calls, and mail procedures. Develop speed and accuracy on an electronic calculator while learning basic business math.

OADM 131-3 (BC=3)
(3-0) 15 weeks
Office Systems II
Explore the systems, procedures and technology of the contemporary office. Complete an office simulation package.
Prerequisite: OADM 130

OADM 135-3 (BC=3)
(3-0) 15 weeks
Introduction to Industry Sectors
Assist the students in determining an industry sector for practicum and workforce employment. Increase the students' awareness and understanding of the industries within Alberta. Create an effective resume, cover letter, and portfolio. Develop interview skills.

OADM 160-3 (BC=3)
(3-0) 15 weeks
Personal Leadership
Individual effectiveness. Topics include: attitude, perception, goal setting, organization, stress and time management, creative thinking, adaptability, self-concept and interpersonal communication. Complete a class project.

OADM 170-3 (BC=3)
(120 hours) 6 weeks
Practicum
Application of technical and administrative skills through employment in an office setting.
Prerequisite: A minimum GPA of 2.00 with no grade lower than D in the Office Technology Certificate fall and winter term courses.

OADM 200-3 (BC=3)
(3-0) 15 weeks
Desktop Publishing - Online Delivery
With an emphasis on desktop publishing, this course will build on word processing techniques and will explore the advanced features and applications of a current word processing program, a presentation program and a desktop publishing program.
Prerequisite: OADM 100 and OADM 111 or VA 100 or equivalent.

OADM 220-3 (BC=3)
(3-0) 15 weeks
Automated Accounting - Online Delivery
Emphasis is on automated accounting procedures and systems. Data entry, generating and analyzing reports and accounting simulations using integrated accounting software.
Prerequisites: OADM 123 or OADM 126 or VA 120 or equivalent.

Pharmacy Technician

(Open to Pharmacy Technician students only.)

PHAR 110-3 (BC=3)
(3-1) 15 weeks
Pharmacy Practice I
Includes medical terminology, the prescription process, dispensing function, pharmacy references, dosage forms, precaution labels, introduction to pharmacy

PHAR 111-3 (BC=3)
(3-1) 15 weeks
Pharmacy Practice II
Course deals with over-the-counter medications available in Canada.
Prerequisite: PHAR 110

PHAR 120-2 (BC=2)
(0-5) 15 weeks
Dispensing I
All aspects of dispensing. Filling prescriptions and completing all required pricing, record-keeping and computer functions.

PHAR 121-2 (BC=2)
(0-5) 15 weeks
Dispensing II
All aspects of dispensing continued. Principles of compounding and how they are applied in preparing a variety of pharmaceuticals.
Prerequisite: PHAR 110, 120, 130, 140, 161, 180

PHAR 130-3 (BC=3)
(3-0) 15 weeks
Pharmacy Laws and Agreements
The relationship between pharmacists and pharmacy technicians. The responsibilities and authority of each position. Related Acts and the records required for acquiring and using pharmaceuticals. Contracts for payment by third party paying agencies. Payment forms.

PHAR 140-3 (BC=3)
(3-0) 15 weeks
Pharmaceutical Calculations
Mastering accurate calculations in: dispensing, pricing, systems of measure, compounding mixtures and dilutions, and preparing parenteral products, as they apply in pharmacy.

PHAR 151-3 (BC=3)**(3-0) 15 weeks****Hospital Pharmacy**

Practice of pharmacy in an institutional setting. Guidelines for hospital pharmacies. The principles of preparing pharmaceuticals and antineoplastic drugs under aseptic conditions.

Prerequisite: PHAR 110, 120, 140, 180

PHAR 155-1 (BC=1)**(0-3) 15 weeks****Aseptic Technique**

Group and individual instruction in preparing sterile products under aseptic conditions. Preparing antineoplastic drugs.

Prerequisite: PHAR 110, 120, 140, 180

Prerequisite or Co-requisite: PHAR 151

PHAR 161-1 (BC=1)**(0-3) 15 weeks****Computer Skills**

Knowledge of and skill on pharmacy software.

PHAR 171-3 (BC=3)**(3-0) 15 weeks****Community Pharmacy**

Basics of merchandising and operating community retail pharmacies. Pharmacy location and layout. Merchandising. Purchasing and inventory management. Pricing. Advertising and promotion.

PHAR 180-3 (BC=3)**(3-1) 15 weeks****Pharmacology I**

The major drug classes used in health care. Related anatomy, physiology, and medical conditions. Pharmacology, terminology, and medications. Becoming familiar with the generic, trade and manufacturers' names of 400 common medications. Content includes: antimicrobial drugs, autonomic meds, CNS meds, respiratory meds, gastrointestinal meds.

PHAR 181-3 (BC=3)**(3-1) 15 weeks****Pharmacology II**

The major drug classes used in health care. Related anatomy, physiology, and medical conditions. Pharmacology, terminology, and medications. Becoming familiar with the generic, trade and manufacturers' names of 400 common medications. Content includes: musculo-skeletal meds, cardiovascular meds, endocrine meds, dermatological meds, eye and ear meds.

Note: PHAR 180 does not have to precede PHAR 181

PHAR 191-3 (BC=3)**Retail Pharmacy Practicum****- Community Pharmacy (160 hrs, 4 week block)**

Practical experience in a community pharmacy. Placements will be in locations across the province, or outside the province, so there may be extra expenses.

Prerequisite: Passing grades in all Pharmacy courses.

Note:

- 1) This course will be graded as CR/NCR (Credit/No Credit)
- 2) Due to the rapidly changing nature of pharmacy and health care, students must complete both practicum courses (PHAR 191 and PHAR 192) within one academic year of finishing their other course work. Students not able to meet this timeline will have to repeat the lab courses: PHAR 120, 121, 155 and 161.
- 3) Please note that most practicums require a block set of full-time hours not part-time.

PHAR 192-3 (BC=3)**Hospital Pharmacy Practicum****(Hospital Pharmacy (160 hours, 4 week block)**

Practical experience in a hospital pharmacy. Placements will be in locations across the province, or outside the province, so there may be extra expenses.

Prerequisite: Passing grades in all Pharmacy courses.

Note:

- 1) This course will be graded as CR/NCR (Credit/No Credit)
- 2) Due to the rapidly changing nature of pharmacy and health care, students must complete both practicum courses (PHAR 191 and PHAR 192) within one academic year of finishing their other course work. Students not able to meet this timeline will have to repeat the lab courses: PHAR 120, 121, 155 and 161.
- 3) Please note that most practicums require a block set of full-time hours not part-time.

Philosophy

Note: Not all courses listed may be offered. Check Course Timetable for availability.

Note: 200-level Philosophy courses do not require previous Philosophy. PHIL 201, 202 and 222 are recommended if you intend to major in Philosophy.

Note: There are no prerequisites for 300-level courses (except for PHIL 389). You will find it helpful, however, to take PHIL 202 before taking any 300-level courses. PHIL 201 will provide valuable background for PHIL 339, 340, 348, 355 and 386.

PHIL 201-3 (BC=3)**(3-0) 15 weeks****Values and Society**

The classical problems of Western philosophy. Studying and discussing selected philosophical classics and contemporary works. Emphasis is on questions of moral and other values, and on the nature of society and justice.

Note: Do not take if you have credit in PHIL 239 or 240.

PHIL 202-3 (BC=3)**(3-0) 15 weeks****Knowledge and Reality**

The classical problems of Western philosophy. Studying and discussing selected philosophical classics and contemporary works. Emphasis is on questions of the nature and extent of human knowledge, and classic problems about the nature of reality and our place in it.

Note: Do not take if you have credit in PHIL 230 or 240.

PHIL 221-3 (BC=3)**(3-0) 15 weeks****Practical Logic**

Informal and elementary formal methods and principles used to distinguish correct and incorrect reasoning. Informal fallacies, definitions, and elementary principles of scientific method.

PHIL 222-3 (BC=3)**(3-0) 15 weeks****Symbolic Logic I**

Basic concepts of logic: consistency, logical truth, entailment, equivalence. Symbolization of natural language inferences using sentential and predicate logic. Formal syntax of sentential and predicate logic. Natural deduction for sentential logic. Introduction to the semantics and metatheory of sentential

logic: truth-tables, truth-functional completeness, soundness and completeness of the natural deductive system, compactness.

PHIL 300-3 (BC=3)

(3-0) 15 weeks

Professional Ethics

This course is designed to acquaint students with the range of ethical questions and issues that arise for practitioners of various professions. Students will develop their critical and analytical skills in their own arguments designed to appraise and develop good ethical positions on a variety of issues and problems common to many professions, problems like: professional responsibility, the use of codes of ethics in making good ethical decisions, privacy and client confidentiality, professional client-practitioner relationships, issues of public and private ethical responsibility.

PHIL 301-3 (BC=3)

(3-0) 15 weeks

The Theory of Knowledge

Epistemology is the study of the origin, nature, methods, and limits of knowledge. Topics: Truth, skepticism, representationalism, and phenomenalism. Rational belief and the criteria of knowledge. Theories of justification, including foundationalism and coherentism. Externalist theories, including reliabilism and naturalism. The possibility of *a priori* knowledge and the justification of induction.

PHIL 321-3 (BC=3)

(3-0) 15 weeks

Metaphysics

Topics may include freedom of the will, the mind-body problem, and the nature of time. The character of metaphysical reasoning.

PHIL 323-3 (BC=3)

(3-0) 15 weeks

Philosophy of Mind

What it means to be a person and have a mind. The relationship of philosophical ideas to scientific studies of mental phenomena. Topics may include: The mind-body relationship, personal identity, memory, imagination, intention, desire, emotion, and sensation.

PHIL 339-3 (BC=3)

(3-0) 15 weeks

Ethics

Questions of right and wrong, good and evil, and reasons for action. The ethical theories of authors such as: Plato, Aristotle, Hobbes, Kant, J.S. Mill, and John Locke.

PHIL 340-3 (BC=3)

(3-0) 15 weeks

Advanced Ethics

Consequentialist versus non-consequentialist views. Meaning and objectivity in morals. Free will and moral responsibility. The ethics of virtue. Contractarian ethics.

PHIL 341-3 (BC=3)

(3-0) 15 weeks

Ancient Philosophy

Ancient Greek philosophy. Examining the one/many problem. Considering pre-Socratic philosophy by studying Pythagoreanism, Heraclitus, Parmenides and Democritus. Examining Socrates through readings of Plato's early dialogues, considering Plato in detail. Emphasis is on the development of Plato's Theory of Forms.

PHIL 342-3 (BC=3)

(3-0) 15 weeks

Aristotle and Hellenistic Philosophy

Studying the works of Aristotle dealing with ontology, epistemology, logic and ethics. Examining some of the leading figures in the schools of Epicureanism and Stoicism. Considering Scepticism as exhibited by Pyrronism and the Academics.

PHIL 345-3 (BC=3)

(3-0) 15 weeks

Descartes to Kant

Early modern philosophy. Examining rationalist and empiricist traditions of the seventeenth and eighteenth centuries. Descartes' so-called "epistemic turn". Identifying and isolating the epistemological problems generated by this epistemic turn. Examining possible solutions (if any) to these problems using works by authors such as Leibniz, Locke, Berkeley, Hume and Kant.

PHIL 347-3 (BC=3)

(3-0) 15 weeks

Kant to Russell

Eighteenth, nineteenth and twentieth century philosophy. Studying and discussing a variety of issues including epistemological, metaphysical, ethical and logical. Considering the theories of authors such as Kant, Fichte, Hegel, J.S. Mill, Sartre, and Russell.

PHIL 348-3 (BC=3)

(3-0) 15 weeks

Philosophy and Women

An introduction to philosophical examination of the concepts, discussions, ethical issues and controversies arising from a consideration of the role and status of women based on the social and political influences from the past and present and the influences of various schools of philosophy and feminist thought.

PHIL 350-3 (BC=3)

(3-0) 15 weeks

Philosophy of Art

This course is designed to acquaint students with various aspects of art criticism, evaluating and critically appraising the claims and arguments found in critical discourse and in philosophical texts elaborating aspects of art criticism. Students should develop sound analytical skills necessary to construct good arguments of their own in which they move beyond the uncritical acceptance of beliefs about the nature of art, the knowledge of art and the judgements of value about art.

PHIL 355-3 (BC=3)

(3-0) 15 weeks

Philosophy of the Environment

Designed to bring traditional and contemporary philosophical theories and methods to bear on issues raised by our relationship to the environment. The ethical, aesthetic, or metaphysical ramifications of certain major environmental problems, such as pollution, overpopulation, or resource exhaustion will be considered.

PHIL 357-3 (BC=3)

(3-0) 15 weeks

Philosophy of Religion

The concept of religion. Arguments for and against the existence of God. Meaning and intelligibility in religious language.

PHIL 364-3 (BC=3)

(3-0) 15 weeks

Philosophy of Science I

The philosophy of natural science. Hypothesis testing. The nature of causation, law, and explanation.

PHIL 365-3 (BC=3)

(3-0) 15 weeks

Philosophy of Science II

The debate over the possibility of objectivity in the social sciences, which began with the work of Max Weber. Positivism. Hermeneutics. Critical theory. Ethnomethodology.

PHIL 369-3 (BC=3)**(3-0) 15 weeks****Phenomenology and Existentialism**

This course involves the critical examination of some of the major writings of European philosophers to, in part, provide an introduction to the background and main themes of existentialist philosophy and existentialist phenomenology. Authors such as Kierkegaard, Nietzsche, Heidegger and Sartre may be considered.

PHIL 375-3 (BC=3)**(3-0) 15 weeks****Science and Society**

The intellectual, cultural and social dimensions of science and their implications. Topics may include the impact of the Newtonian revolution, mechanism, materialism and Darwinism, and the nature of objectivity and rationality.

PHIL 386-3 (BC=3)**(3-0) 15 weeks****Philosophy and Health Care Issues**

Concepts and issues central to health care knowledge and practice. Rights and responsibilities of patients and health care personnel. Passive and active euthanasia. Abortion. Medical research and experimentation. Disclosure of diagnosis and risks. Death and suffering.

PHIL 388-3 (BC=3)**(6-0) 7 weeks****Philosophy and Nursing**

This course involves elementary methods and principles for analyzing reasoning in everyday contexts as well as a philosophical examination of concepts and issues central to knowledge and practice in nursing.

Note: This course is available only to students registered in the BScN-Collaborative Program.

PHIL 389-3 (BC=3)**(3-0) 15 weeks****Symbolic Logic II**

Syntactical and semantic aspects of predicate logic and predicate logic with identity: truth-trees and the decision problem; natural deduction; elementary modal theory; soundness and completeness of the natural deduction systems; compactness; the Lowenheim-Skolem theorem; introduction to second-order logic.

Prerequisite: PHIL 222 or consent of the Department.

PHIL 399-3 (BC=3)**(3-0) 15 weeks****Philosophy and Computing**

Philosophical themes and problems using fifth generation computer technology. Mainstream topics in philosophy as they apply to modern technological society. Topics are chosen that can be illustrated in a programming language. The focus will be on the philosophical topic, not the computing language. As most of these issues are currently researched using artificial intelligence, we will use PROLOG and/or an expert system shell.

Physical Education and Sport Studies

(See Kinesiology and Sport Studies)

Physics

Note: Not all courses listed may be offered. Check Course Timetable for availability.

PHYS 075-4 (BC=4)**(4-1) 15 weeks****Introductory Physics**

See "Career and Academic Preparation Courses," page 203.

PHYS 095-5 (BC=5)**(4-1S-2) 15 weeks****Preparatory Physics**

See "Career and Academic Preparation Courses," page 203.

PHYS 205-3 (BC=4)**(3-3) 15 weeks****Introductory General Physics I (Mechanics)**

A non-calculus course in physics. Kinematics, vectors, and forces in equilibrium. Linear and rotational motion. Dynamics of particles (oscillations).

Prerequisite: Physics 30 or equivalent. Math 30 (Pure)

PHYS 224-3 (BC=4)**(3-0-3) 15 weeks****Particles and Waves**

Algebra-based course for students in life, environmental, and medical sciences. It guides the student through two distinct types of motion: motion of matter (particles) and wave motion. Vectors, forces, bodies in equilibrium, elasticity and fracture; review of kinematics and basic dynamics; conservation of momentum and energy; circular motion; vibrations; waves in matter;

wave optics; sound; black body radiation, photons, de Broglie waves; models of the atom. Examples relevant in environmental, life, and medical sciences will be emphasized.

Prerequisites: Physics 20 or equivalent, Math 30 (Pure). Physics 30 is strongly recommended.

Note: Credit may be obtained for only one of PHYS 205, 224, 241, 244 or ENPH 231.

Note: PHYS 224 should be followed by PHYS 226.

PHYS 226-3 (BC=4)**(3-0-3) 15 weeks****Fluids, Fields, and Radiation**

Fluid statics and dynamics, gases, kinetic interpretation; electrostatics; currents and circuits; magnetic fields; electromagnetic induction; nuclear radiation, its interaction with matter and applications.

Prerequisite: PHYS 205

Note: Credit may be obtained for only one of PHYS 207, 226, 246, 247 or 269.

PHYS 241-3 (BC=4)**(3-1S-3) 15 weeks****Mechanics**

Kinematics. Particle dynamics. Work and energy. Linear momentum. Rotational kinematics. Rotational dynamics. Equilibrium of rigid bodies.

Prerequisite: Physics 30 and Math 30 (Pure). Co-requisite: MATH 202 (203) or 212.

Note: You can have credit in only one of PHYS 203, 205, 231, or 241.

PHYS 244-3 (BC=4)**(3-1S-3) 15 weeks****Newtonian Mechanics and Relativity**

A calculus-based course for students majoring in the physical sciences. Newtonian mechanics, including kinematics, dynamics, conservation of momentum and energy, rotational motion and angular momentum; special relativistic kinematics and dynamics, including length contraction, time dilation, and the conservation of energy and momentum in special relativity.

Prerequisites: Math 30 (Pure), Physics 30.

Corequisites: MATH 202 or 203 or 212 or equivalent.

Note: Credit may be obtained for only one of PHYS 205, 224, 241, 244 or ENPH 231

PHYS 246-3 (BC=4)
(3-1S-3) 15 weeks**Fluids and Waves**

A calculus-based course for students majoring in the physical sciences. Fluid statics and dynamics, elasticity and simple harmonic motion; sound waves, wave properties of light; quantum waves, wave-particle duality.

Prerequisite: PHYS 244

Corequisite: MATH 204 or equivalent.

Note: Credit may be obtained for only one of PHYS 207, 226, 246, 247 or 269

PHYS 247-3 (BC=4)
(3-1S-3) 15 weeks**Waves, Optics and Thermal Physics**

Oscillations, simple harmonic motion, waves. Gravitation. Sound. Light, geometrical optics, optical instruments, interference and diffraction. Fluids. Kinetic theory. Heat and thermodynamics.

Prerequisite: PHYS 241 or ENPH 231

Co-requisite: MATH 204 or 213

Note: You can have credit in only one of PHYS 206, 207, 237, 243, 247, or 269.

PHYS 269-3 (BC=4)
(3-1S-3/2) 15 weeks**Wave Motion, Optics and Sound**

Geometrical optics, optical instruments. Oscillations, waves, sound, light, interference and diffraction. Simple harmonic motion.

Prerequisites: Physics 30, Math 30 (Pure) and 31.

Co-requisites: MATH 202 or 203 or 212. ENGG 230

Note: You can have credit in one of PHYS 207, 247, or 269.

Note: For engineering students only.

PHYS 356-2 (BC=2)
(3-1S-3/2) 8 weeks**Electricity**

(First half of PHYS 359 up to and including DC circuits)

Note: Only for Engineering Students bound for the University of Regina.

Note: You can have credit in only one of PHYS 355, 356, 359

PHYS 359-3 (BC=4)
(3-1S-3/2) 15 weeks**Electricity and Magnetism**

Electric charge. Electric potential. Gauss's Law. Capacitance. Electric currents. Electromotive force. DC circuits. Magnetic Field. Ampere's Law. Faraday's Law. AC circuits. Electric and magnetic properties of materials.

Prerequisite: PHYS 241 or ENGG 230, or PHYS 207 and permission of Department.

Co-requisites: MATH 204 or 213. PHYS 247 or 269 or 237.

Note: You can have credit in only one of PHYS 355 and 359.

Note: For engineering students only or the consent of the department.

Physiology

PSIO 258-3 (BC=3)
(3-0-0) 15 weeks**Elementary Physiology I**

Essentials of human physiology focusing on systemic functions in the human body with emphasis on systems that respond and adapt to exercise stress. Topics will include the cardiovascular, respiratory, musculoskeletal, nervous and endocrine systems.

Prerequisite/Corequisite: KNSS 200

Note: For Kinesiology students only.

PSIO 259-3 (BC=4)
(3-0-1) 15 weeks**Elementary Physiology II**

Integrative human physiology focusing on functions of the human body with special emphasis on control and integration of these functions. The responses and adaptations to exercise will be used as a foundation upon which the concepts of control and integration will be discussed. Some topics from PSIO 258 will be revisited to discuss control and integration of cellular and systemic function.

Prerequisite: PSIO 258

Note: For Kinesiology students only.

PSIO 262-6 (BC=6)
(3-0), (3-0) 30 weeks**Elementary Physiology**

Physiology of mammals and humans.

Prerequisite: Biology 30; Chem 30.

PSIO 263-6 (3-0), (3-0) 30 weeks**Human Physiology**

Introductory course in human physiology. Prerequisites: BIOL 217 or 218; plus 6 credits of university level chemistry.

Note: Credits may be obtained in only one of PSIO 262 or 263.

Political Science

Note: Not all courses listed may be offered. Check Course Timetable for availability.

POLI 200-6 (BC=6)
(3-0) 30 weeks**Introduction to Political Science**

The political institutions, processes, and problems in Canada and other democratic and non-democratic governments. Basic terminology. Classification of political systems. Ideologies. Democratic representation. Constitutions and civil liberties. Federalism. Legislatures, executives, and bureaucracy. Legal adjudication. Public opinion and voting behaviour. Political parties and interest groups. Basic issues in international relations.

Note: This course is required for all majors in Political Science.

POLI 201-3 (BC=3)
(3-0) 15 weeks**Introduction to Politics**

An introduction to the basic concepts, ideologies, institutions and processes of politics. Not open to students who are taking or have taken POLI 200.

Note: This course is required for all Political Science majors.

POLI 210-3 (BC=3)
(3-0-0) 15 weeks**Canadian Political Issues**

Selected themes in Canadian politics, such as federalism, and regionalism, the Charter of Rights, issues of diversity and citizenship, and how we are governed. Not open to students who are taking or have taken POLI 200 or POLI 321.

POLI 283-3 (BC=3)
(3-0) 15 weeks**Issues and Trends in World Politics**

This course deals with major trends in world politics, such as international tensions, migration, ethnic and religious conflict, human rights and sustainable development.

Note: This course is required for all majors in Political Science.

POLI 300-6 (BC=6)
(3-0) 30 weeks**Comparative Political Systems**

Selected major political systems of the present day. Relationships between political functions and socio-economic processes.

Note: This is the core course in comparative government and is a prerequisite for most 400 level courses in the field.

POLI 308-3 (BC=3)
(3-0) 15 weeks
History of Political Thought I (Plato to Machiavelli)

Equal to the first half of POLI 310.
 Prerequisite: Not open to students in the first year without consent of the Department.

POLI 309-3 (BC=3)
(3-0) 15 weeks
History of Political Thought II (Hobbes to the Present)

Equal to the second half of POLI 310.
 Prerequisite: Not open to students in the first year without consent of the Department.

POLI 310-6 (BC=6)
(3-0) 30 weeks

History of Political Thought
 Survey course in Western political philosophy, including notable developments and major political philosophers. Plato, Aristotle, Machiavelli, Hobbes, Rousseau, Marx, and John Stuart Mill.
 Prerequisite: Not open to students in the first year without consent of the Department.

Note: This is the core course in political theory and is a prerequisite for most 400 level courses in the field.

POLI 320-6 (BC=6)
(3-0) 30 weeks
Canadian National Government and Politics

Survey course. Basic concepts and terminology. Political culture. Ideologies and political parties. The social and economic context. Western alienation. Québécois nationalism. The Constitution. Charter of Rights. Federalism. Elections. Parliament, cabinet, bureaucracy. The judiciary. Political participation. Interest groups.

Prerequisite: Not open to students in the first year without consent of the Department.

Note: This is the core course in Canadian politics and is a prerequisite for most 400-level courses in this field.

Note: You cannot take POLI 320 if you have taken, or are taking, POLI 321.

POLI 321-3 (BC=3)
(3-0) 15 weeks

Canadian Government
 Designed for students who want one senior course in political science. Survey course in the structure and functions of the federal, provincial, and local governments.

Note: You cannot take POLI 321 if you have taken, or are taking, POLI 320.

POLI 324-3 (BC=3)
(3-0) 15 weeks

Politics of Health Care

A comprehensive overview of health care in Canada. The development of the health care system. Legislative and philosophical groundings. Financing and delivery from a comparative perspective. Current stresses in the health care system.

POLI 328-3 (BC=3)
(3-0) 15 weeks

Elements of Public Administration

The major institutions, processes, and issues of public administration at the federal level in Canada. Government organization. Budgets. Policy making. Selected personnel issues. Democratic control. Accountability.

POLI 360-6 (BC=6)
(3-0) 30 weeks

International Relations

The nature of foreign policy. The dynamics of interactions between states. Causes of war. Imperialism. Role of non-state actors.

Note: This is the core course in international relations and is a prerequisite for most 400-level courses.

Prerequisite: Not open to students in the first year without consent of the Department. POLI 200 recommended.

POLI 388-3 (BC=3)
(3-0) 15 weeks

Politics and Global Trade - I

Democracy; the technological imperative; trade and ethics; international trade regimes and their politics.

Note: admission restricted to senior level students in University Transfer and Business Administration Programs, or by consent of the Department.

POLI 389-3 (BC=3)
(3-0) 15 weeks

Politics and Global Trade - II

The state in the global economy; trade facilitation federally and provincially; introduction to area studies.

Note: Admission restricted to senior level students in University Transfer and Business Administration Programs, or by consent of the Department.

Practical Nurse

PN 216-6 (BC=6)
(6-0) 15 weeks

Anatomy, Physiology, Microbiology

An introduction to the normal structure and function of the human body according to body systems. An introduction to microorganisms and their relationship to disease process.

Prerequisites:

- a minimum of 60% in ELA 30-1 or equivalent
- a minimum of 60% in Biology 30 or equivalent
- a minimum of 60% in Mathematics 20-1, or a minimum of 70% in Mathematics 20-2 or a minimum of 50% in Mathematics 30-1 or Mathematics 30-2 or equivalent

PN 217-3 (BC=3)
(2-2) 15 weeks

Adult Health Assessment

Introduction to adult physical assessment.

PN 218-4 (BC=4)
(3-3) 15 weeks

Nursing Science I - Foundations

The knowledge and skills required for provision of safe, competent, holistic care to clients in a variety of settings are introduced. The focus is on health promotion, spirituality, ethnicity and culture, legal and ethical considerations in nursing. The psychomotor skills necessary to nursing will be developed based on underlying theoretical principles and incorporating critical thinking in their application.

PN 225-3 (BC=3)
(5-0) 9 weeks

Pathophysiology

The alterations in normal human physiologic structure and function which underlie diseases processes are examined. Pathological processes and concepts, predisposing factors, clinical manifestations and suggested diagnostic tests and treatments for representative and specific diseases are discussed.

Prerequisite: PN 216

PN 226-3 (BC=3)
(5-0) 9 weeks

Applied Pharmacology

The application of knowledge of therapeutic drugs, their effects on the body, and nursing responsibilities when administering medications are discussed.

PN 227-5 (BC=5)
(6.5-5) 9 weeks
Nursing Science II - Advanced
 Knowledge and skills required to provide safe, competent, holistic nursing care to clients within the framework of the nursing process. Focus is on the principles underlying nursing actions, health promotion and the integration of concepts from other courses.
 Prerequisite: PN 218
 Co-requisite: PN 225

PN 228-3 (BC=3)
(5-0) 9 weeks
Growth and Development Across the Lifespan
 An overview of human growth and development and normal behavioral responses through the lifespan.

PN 229-5 (BC=5)
(216 clinical hours) 6 weeks
Continuing Care Practice
 Introduction to continuing care settings with opportunity to apply previously acquired knowledge and skills when caring for clients in these settings.
 Prerequisites: PN 217, 218, 225, 226, 227

PN 231-3 (BC=3)
(6.5-0) 7 weeks
Mental Health
 Focus is on the promotion of mental health, prevention and management of mental disorders throughout the life cycle, within various health care settings.
 Prerequisites: PN 225, 226, 227, 229

PN 235-5 (BC=5)
(6.5-8.5) 7 weeks
Nursing Science III - Medical/Surgical Nursing
 The focus of this course is the knowledge and skills required to provide safe, competent, holistic care for the adult client who is experiencing acute alterations in health. Focus is on the principles underlying nursing actions, health promotion and the integration of concepts from other courses.
 Prerequisite: PN 229

PN 236-3 (BC=3)
(6.5-0) 7 weeks
Health Education
 An overview of the physical, social, mental, environmental and spiritual aspects of health at the personal and community level. Health promotion for individuals and communities is addressed.

PN 237-6 (BC=6)
(271 clinical hours) 8 weeks
Acute Care Practice
 Focus is on the nursing needs of clients throughout the life cycle in acute care settings.
 Prerequisites: PN 231, 235, 236

PN 242-3 (BC=3)
(5-0) 9 weeks
Pediatric Nursing
 An introduction to the needs and nursing interventions related to children. Community resources and client teaching are addressed.
 Prerequisites: PN 237

PN 243-3 (BC=3)
(5-0) 9 weeks
Maternity Nursing
 An introduction to the needs and nursing interventions of childbearing families. Community resources and client teaching are addressed.
 Prerequisites: PN 237

PN 246-3 (BC=3)
(5-0) 9 weeks
Community Nursing
 An introduction to the concepts, theories and practices of community health nursing and health promotion as it relates to individuals, families and groups.
 Prerequisites: PN 237

PN 247-3 (BC=3)
(5-0) 9 weeks
Nursing Science IV - Transition to Graduate
 Builds on previous learning in the areas of professionalism, leadership, and entry to practice. Critical thinking in the application and integration of previous learning is addressed to assist in the transition from the role of student to that of entry level graduate nurse.
 Co-requisite: PN 242, 243, 246
 Prerequisite: PN 237

PN 248-3
(116 hours of preceptored clinical) 3 week
Focus Practicum
 Opportunities are provided to observe and apply nursing knowledge and skills in a variety of settings, such as mental health, maternity, and community. May include practice in a continuing care setting with a focus on leadership roles.
 Prerequisites: PN 242, 243, 246, 247

PN 249-4 (BC=4)
(155 hours preceptored clinical) 4 weeks
Comprehensive Practicum
 Preceptorship experience provides the opportunity to make the transition from a student to a graduate role.
 Prerequisite: PN 247

Psychology

Note: Not all courses listed may be offered. Check Course Timetable for availability.

PSYC 205-3 (BC=3)
(45 lecture)
Lifespan Development
 Physical, cognitive, social, and personality development from conception to death are explored from a developmental psychological perspective. Theories, research, and applications about lifespan development will be covered.
Note: For OPTAD students only. This course does not fulfill the developmental psychology requirement for the BA Psychology Major.

PSYC 260-3 (BC=3)
(3-0) 15 weeks
Basic Psychological Processes
 An overview of some of the important areas in psychology topics including the nature and history of psychology, research methods, the biological foundations of behaviour, genes and evolution, sensation and perception, states of consciousness, learning and adaptation, and memory.
Note: This course is a prerequisite for most psychology courses and is normally followed by PSYC 261.

PSYC 261-3 (BC=3)
(3-0) 15 weeks
Social and Individual Behaviour
 An overview of some of the important areas in Psychology. Topics include thought, language, and intelligence; motivation and emotion; development over the lifespan; personality; psychological disorders and their treatments; stress, health, and coping; and behaviour in a social context.
 Prerequisite: PSYC 260.
Note: PSYC 260/261 is a prerequisite for many courses in the Department.

PSYC 305-3 (BC=3)
(3-0) 15 weeks
History of Psychological Thought
 The roots of psychological thought in Western culture, and the relationship between theories of human nature and changing social institution.
 Prerequisites: PSYC 260 & PSYC 261

PSYC 312-6 (BC=8)**(3-2) 30 weeks****Experimental Design and Quantitative Methods for Psychology**

An integrated approach to the methods, principles, and ethics of psychological research and the statistical techniques utilized for the analysis of these data.

Prerequisites: Math 30 (Pure) and PSYC 260.
Prerequisite or Co-requisite: PSYC 261

PSYC 321-3 (BC=3)**(3-0) 15 weeks****Industrial & Organizational Psychology**

The world of work. Topics include career development, performance, motivation, conditions of work, employee selection and training, and organization.

Prerequisite: PSYC 260/261 or consent of the Department.

PSYC 341-3 (BC=3)**(3-0-0) 15 weeks****Social Psychology**

Individual and group behaviours as they are affected by social contexts. Topics may include the self and social perception, social cognition; prejudice, discrimination, and stereotyping; attitude formation and change; conformity and obedience; affiliation and attraction; pro- and anti-social behaviours; and applied social psychology topics (law, health).

Prerequisite: PSYC 260/261 or SOCI 260/261

PSYC 347-3 (BC=3)**(3-0) 15 weeks****Psychology of Gender**

An overview of psychological perspectives on gender including the nature of gender, alternative expressions of gender (e.g. transgenderism), the reproduction of gender through social institutions, the question of gender similarities and differences, gender stereotypes and discrimination, and the implications of gender for various facets of daily living.

Prerequisite: PSYC 260/261

Note: U of C bound students cannot also take PSYC 439 for credit.

PSYC 353-3 (BC=3)**(3-0) 15 weeks****Child Development**

An examination of theory and research related to physical, cognitive, emotional and social development across infancy and childhood.

Prerequisite: PSYC 260/261

PSYC 355-3 (BC=3)**(3-0) 15 weeks****Adolescence**

An examination of theory and research related to physical, cognitive, emotional, and social development occurring during adolescence.

Prerequisite: PSYC 260/261

Note: U of C bound students cannot also take PSYC 429 for credit.

PSYC 357-3 (BC=3)**(3-0-0) 15 weeks****Psychology of Adult Development and Aging**

An examination of theory and research related to physical, cognitive, emotional, and social development across adulthood.

Prerequisite: PSYC 260/261.

PSYC 358-3 (BC=3)**(3-0-0) 15 weeks****Cognitive Psychology**

A survey course in cognition. Major theoretical approaches and research in areas such as perception, attention, memory, the representation of knowledge, language, reasoning and problem solving.

Prerequisite: PSYC 260/261.

Note: For U of A bound students only, the additional prerequisite or co-requisite of either STATS 251 or PSYC 312 is required.

PSYC 367-3 (BC=3)**(3-0) 15 weeks****Human Sexual Behaviour**

This course explores and integrates knowledge from many disciplines including medicine, biology, anatomy, psychology, history, law, anthropology, social science, the arts, and religion in describing human sexual behaviour.

Prerequisite: PSYC 260/261.

PSYC 368-3 (BC=3)**(3-0-0) 15 weeks****Principles of Learning**

Traditional and modern research on classical conditioning, operant conditioning, and memory. Emphasis is on research dealing with non-human animals, but human applications are included where relevant.

Prerequisite: PSYC 260/261

PSYC 369-3 (BC=3)**(3-0-0) 15 weeks****Sensation and Perception**

The psychological and physiological bases of sensory and perceptual processes, including vision, audition, taste, smell, touch, proprioception, and basic psychophysics.

Prerequisite: PSYC 260/261

Note: For U of A bound students only, the additional prerequisite or co-requisite of either STATS 251 or PSYC 312 is required.

PSYC 375-3 (BC=3)**(3-0) 15 weeks****Brain and Behaviour**

Brain function related to sensation, movement, learning, motivation, and thinking. How the brain interacts with behavioural systems.

Prerequisite: Biology 30 or equivalent and PSYC 260/261. (Biology 30 prerequisite required by U of A bound students).

PSYC 377-3 (BC=3)**(3-0-0) 15 weeks****Human Neuropsychology**

Changes in mood, motivation, perception, attention, memory, and language as revealed by studies of structural alterations in the human brain.

Prerequisite: PSYC 375

PSYC 383-3 (BC=3)**(3-0) 15 weeks****Personality**

Survey course including theory and research related to the major problems in the study of personality.

Prerequisite: PSYC 260/261.

PSYC 389-3 (BC=3)**(3-0) 15 weeks****Abnormal Psychology**

General introduction, with emphasis on contemporary views of the nature, development, and treatment of psychological disorders.

Prerequisite: PSYC 260/261

Note: Students cannot get credit for PSYC 389 and 489.

PSYC 391-3 (BC=3)**(3-0-0) 15 weeks****Health Psychology**

Examining the relationship of psychology to illness and related dysfunction, promotion and maintenance of health, and the health system.

Prerequisite: PSYC 260/261

Science

SCIE 050-5 (BC=5)

(5-0) 15 weeks

Basic Science

See "Career and Academic Preparation Courses," page 203.

Social Studies

SOST 090-5 (BC=5)

(5-0) 15 weeks

Canadian Studies

See "Career and Academic Preparation Courses," page 203.

SOST 095-5 (BC=5)

(5-0) 15 weeks

Twentieth Century World

See "Career and Academic Preparation Courses," page 203.

Social Work

(Open to Social Work students only.)

SOWK 201-3 (BC=3)

(3-0) 15 weeks

Introduction to Social Work Methods I

An overview of the social service field. Philosophy, purpose, and objectives of social work practice. Emphasis is on the helping process, working principles, and cardinal values of social work. Developing the knowledge and skills needed for case work. Prerequisite or Co-requisite: SOWK 204

SOWK 202-3 (BC=3)

(3-0) 15 weeks

Introduction to Social Work Methods II

SOWK 201 continued. Communication skills in social work practice. Interviewing, assessing, and recording skills. Audio-visual equipment is used in developing interpersonal communication skills. Prerequisite: SOWK 201

SOWK 204-3 (BC=3)

(3-0) 15 weeks

Social Work Ethics in Practice

A comprehensive overview of ethical principles and theory in social work practice. The main focus of this course is on the skill development, integration and application of ethics in decision-making in critically reflective social work practice.

SOWK 207-3 (BC=3)

(3-0) 15 weeks

Social Services History, Function and Structure

This course pertains to the philosophy, history and development of social welfare in relation to social services organizations, programs and methods of service delivery. Focus is on the variety of venues for social work practice and different groups of individuals who social workers interact with.

SOWK 208-4 (BC=5)

(240 hours)

Field Work I

Normally two days per week in one of a variety of social service agencies. Observing the agency and social service practice. Learning agency policies and procedures. Working closely with a practicum supervisor in the agency. Included are 15 hours of seminars that focus on the integration of classroom lecture material and field practice experience.

Prerequisite or Co-requisite: SOWK 204, SOWK 201, SOWK 207

SOWK 209-4 (BC=5)

(240 hours)

Field Work II

SOWK 208 field placement continued. Under supervision, you will take beginning responsibility for delivery of social services to individuals, groups, or communities. Included are 15 hours of seminars that focus on the integration of classroom lecture material and field practice experience. Prerequisite: SOWK 208.

SOWK 210-3 (BC=3)

(3-0) 15 weeks

Social Work Practice with Groups

This course is about the theory and practice of working with groups. The focus is on the knowledge and skill for effective social work practice in groups, as both group member and leader. Task and treatment groups and their various applications in practice are explored. Prerequisite or Co-requisite: SOWK 201

SOWK 301-3 (BC=3)

(3-0) 15 weeks

Social Work Practice with Individuals and Families

This course expands on the work in SOWK 201 and 202. Further develops knowledge of Social Work interviewing, assessment and intervention techniques. Emphasis on working with individuals to facilitate change, beginning family assessment in diverse contexts, and intervention knowledge and skills with family groups. Prerequisite: SOWK 202

SOWK 304-3 (BC=3)

(3-0) 15 weeks

Social Work Practice with Communities

This course focuses on working with communities. Students are exposed to contemporary theories and models of community organization practice as well as drawing on field experiences which students may have already had. The focus in the course is to integrate theory and field experiences as related to community organization practice, and discuss the challenges, strategies and benefits of working with communities.

Prerequisite: SOWK 202, SOWK 210

SOWK 306-3 (BC=3)

(3-0) 15 weeks

Social Work Administration

Social Work Administration focuses on the practice skills required for ethical and sound social work practice in management settings. The theories that support the practice skills are investigated, and students are exposed to the expected roles and responsibilities of administrators in social services settings. The course prepares students to assume administrative responsibilities and become aware of the current administrative challenges in the social services field.

Prerequisites: SOWK 202, SOWK 207

SOWK 307-3 (BC=3)

(3-0) 15 weeks

Social Policy

Introduces students to the macro level of social policy formulation and the impact policies have on social service delivery. Attention is paid to the linkage between ideologies and policy directions, and to the impact of globalization on Canadian social policy.

Prerequisites: SOWK 207, SOWK 312

SOWK 308-4 (BC=5)

(240 hours)

Field Work III

An extension of SOWK 208/209. Normally two days per week in a field agency for the second year. After an orientation to the agency, you will provide service to a selected client group under supervision. Included are 15 hours of seminars that focus on the integration of classroom lecture material and field practice experience.

Prerequisite: SOWK 209

Note: Not eligible for challenge and Advanced Standing

SOWK 309-4 (BC=5)
(240 hours)**Field Work IV**

The final field placement course. You will have a variety of training experiences in a particular social service agency. Included are 15 hours of seminars that focus on the integration of classroom lecture material and field practice experience.
Prerequisite: SOWK 308.

SOWK 312-3 (BC=3)
(3-0) 15 weeks**Social Problems and Issues in Social Work**

Current trends and issues in social work practice and how they relate to social problems. Students examine selected social problems relevant in Canadian society and are introduced to a structural anti-oppressive social work framework. An introduction to quantitative and qualitative forms of social work research.

Prerequisite: SOWK 207

Note: Not eligible for challenge and Advanced Standing

SOWK 313-3 (BC=3)
(3-0) 15 weeks**Social Work in Health Care Settings**

The purpose of the course is to examine, understand, and critique current theories, issues, practices, and the unique role of the social worker in health and mental health. The emphasis is on knowledge of various approaches to health and mental health and on the role of the social worker in assessment, referral, intervention and advocacy amidst the various approaches, and on the interdisciplinary context of health and mental health.

Prerequisite: SOWK 202

Sociology

Note: Not all courses listed may be offered. Check Course Timetable for availability.

SOCI 260-3 (BC=3)
(3-0) 15 weeks**Sociological Concepts & Perspectives**

Sociological perspectives and concepts used to analyse social behaviour. The nature of group behaviour and social interaction. Culture, social organization, the social personality, and deviance.

Note: SOCI 260 is the prerequisite for most advanced courses.

SOCI 261-3 (BC=3)
(3-0) 15 weeks**Canadian Society**

Family, religion, education, politics, and economics. Social stratification and social inequality.

Prerequisite: SOCI 260

SOCI 301-3 (BC=3)
(3-0) 15 weeks**Sociology of Gender and Sexuality**

Comparing gender and sex roles in different societies. Emphasis is on contemporary Canada. Gender and sex role behaviour and theories of their origin. Recent research on the social effects of gender and sex roles.

Prerequisite: SOCI 260 or consent of department.

SOCI 305-3 (BC=3)
(3-0) 15 weeks**Selected Topics in Sociology**

Examination of selected topics in contemporary sociology. Topics may focus on specific sociological issues, institutions or problems (such as culture and society, development, sport, rural studies).

Prerequisite: SOCI 260 or consent of the department.

Note: This course may be repeated for credit.

SOCI 307-3 (BC=3)
(3-0) 15 weeks**Aboriginals in Canada**

Dynamics of Aboriginal groups' relations with each other and with the larger Canadian society. Topics may include: decolonization and relations with the state, demography, organizations, nationalism, and nation-building, power, community and economic development, social class and public policy.

Prerequisite: SOCI 260 or consent of the department.

SOCI 310-3 (BC=4)
(3-3) 15 weeks**Introduction to Social Statistics**

Statistical reasoning and techniques used by sociologists to summarize data and test hypotheses. Topics include describing distributions, cross-tabulations, probability, correlation/regression and non-parametric tests.

Prerequisite: SOCI 260 or consent of the department.

Note: This course may not be taken for credit by students with credit in SOCI 311-6.

SOCI 312-3 (BC=4)
(3-3) 15 weeks**Introduction to Social Methodology**

Research design, data collection, and data processing strategies used by sociologists. Topics include research values and ethics, scaling, reliability and validity, experimentation, survey research techniques, historical methods, field research, and content analysis.

Prerequisite: SOCI 310 or equivalent

Note: This course may not be taken for credit by students with credit in SOCI 311-6.

SOCI 322-3 (BC=3)
(3-0) 15 weeks**Social Issues in Canada**

A survey course on social issues in Canada. Regional and national scope will be covered in such areas as health, safety, the economy, the environment, community belonging, integration of newcomers and education.

Prerequisite: SOCI 310 or SOCI 312 or consent of the department.

Note: You cannot receive credit for SOCI 322 if you have previously taken ANTH 357.

SOCI 323-3 (BC=3)
(3-0) 15 weeks**Sociology of Poverty**

Meaning, origins, extent, and effects of poverty. Focus is on Canadian society. Reviewing theoretical explanations of poverty. The relationships between poverty and social institutions such as education, health care, housing, criminal justice, and the political order. Reviewing and evaluating various poverty programs.

Prerequisite: SOCI 260 or consent of the Department.

SOCI 325-3 (BC=3)
(3-0) 15 weeks**Criminology**

The nature of crime and how it is defined. Measurement problems and official statistics. Crime in relation to social-cultural factors. Theoretical explanations of criminal behaviour. Critical perspectives. Selected types of crime. Emphasis is on Canadian society.

Prerequisite: SOCI 260 or consent of the Department.

SOCI 327-3 (BC=3)
(3-0) 15 weeks
Criminal Justice and Crime Control
 The social response to crime. Considering how crime control strategies have developed. Evaluating theories of punishment. The function of criminal law. Elements of the Canadian criminal justice system such as the police, courts, and corrections. Incarceration and release measures. Changing directions in crime control. Formal and informal alternatives to criminal justice. Critical perspectives.
 Prerequisite: SOCI 325

SOCI 332-3 (BC=3)
(3-0) 15 weeks
The Development of Sociology I
 The origin and development of classical sociological theory. Emphasis is on the Enlightenment, Romantic-Conservative Reaction, Saint-Simon, Comte, Marx, Durkheim, Weber, and Freud.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 333-3 (BC=3)
(3-0) 15 weeks
The Development of Sociology II
 The contributions of modern and contemporary sociological theorists. Emphasis is on Structural Functionalism, Symbolic Interactionism, Ethnomethodology, Contemporary Feminist Theory, Neo-Marxism and Critical Theory, and Post-Structuralism and Post-Modernism.
 Prerequisite: SOCI 332

SOCI 341-3 (BC=3)
(3-0) 15 weeks
Social Psychology
 Note: This course is not currently offered. If you wish to take Social Psychology, register for PSYC 341 (3-0), which carries an identical program credit at the University of Alberta.
 Prerequisite: SOCI 260/261 or PSYC 260/261.

SOCI 344-3 (BC=3)
(3-0) 15 weeks
Mass Communication and Popular Culture
 An analysis of the varieties of mass media such as radio, television, film and books and their effects on popular culture.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 363-3 (BC=3)
(3-0) 15 weeks
Sociology of Work
 The social relations of production and the organization of work in advanced industrialized countries. Focus is on Canadian society. Topics include: values and meanings attached to work; work and leisure; the union phenomenon; alienation from work; professionalism; the hierarchical nature of the workplace; the impact of technological development on the labour process; and the role of the government in labour relations.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 365-3 (BC=3)
(3-0) 15 weeks
Social Stratification
 An introduction to the sociological study of social stratification and structured inequality with a focus on Canadian society. Topics include different systems of stratification, various theoretical approaches to stratification, class and social inequality, contemporary perspectives and research, socio-economic, gender, ethnic and racial bases of social inequality.
 Prerequisite: SOCI 260 or consent of the department.

SOCI 368-3 (BC=3)
(3-0) 15 weeks
Canadian Ethnic and Minority Group Relations
 Canada is a tremendously diverse country encompassing many ethnic and minority groups. Social processes involved in developing and understanding minority group relations in Canada will be the central focus for this course. The three main concentrations will be on French/English relationships, Aboriginal issues, and challenges relating to all the other groups that have come to Canada.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 371-3 (BC=3)
(3-0) 15 weeks
Sociology of the Family
 The nature of the family in contemporary North American society. Family interaction patterns and how these are related to the many changes in the modern family.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 373-3 (BC=3)
(3-0) 15 weeks
Sociology of Aging
 Aging as a socio-cultural phenomenon with a focus on social and institutional factors associated with aging in modern society. Topics include aging and the self-concept; family; politics; economics and work; demographics; health and health care; housing and transportation; retirement and leisure; death and dying; various comparative, theoretical and historical perspectives, with a focus on Canadian society.
 Prerequisite: SOCI 260 or consent of the department.

SOCI 374-3 (BC=3)
(3-0) 15 weeks
Social Organization of Health Care
 An introduction to the sociological study of the structure and dynamics of health care in Canadian society. Topics include: trends in health care, social epidemiology, health and illness behaviour, professional-client relationships, health care occupations, and the sociology of hospitals.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 376-3 (BC=3)
(3-0) 15 weeks
Sociology of Religion
 General theory plus selected topics. The nature and origins of religion. Religion as an expression of historical, social, and personal conditions. Religion and social change. Religion and individual and social variations. Social functions of religion. Emphasis is on religion in western society, and Canada in particular.
 Prerequisite: SOCI 260 or consent of the Department.

SOCI 395-3 (BC=3)
(3-0) 15 weeks
Sociology of Leisure
 A sociological analysis of the nature and forms of leisure. Topics include historical and contemporary perspectives, trends and issues in leisure participation in postindustrial society, leisure provision, programs and research, the future of leisure. Emphasis will be on leisure in Canadian society.
 Prerequisite: SOCI 260 or consent of the department.

Spanish

Note: 100-level language courses are intended for students with little or no background in the language. Students who have high school matriculation in the language, or who are taking a 100-level course to meet a university's matriculation requirements, may be denied transfer credit. Check the Transfer Guide and with the university.

SPAN 101-3 (BC=4) (4-1) 15 weeks Beginners' Spanish I

Beginning to learn Spanish. Understanding, speaking, reading and writing. The oral aspect of the language is stressed in class.

SPAN 102-3 (BC=4) (4-1) 15 weeks Beginners' Spanish II

For students who have taken SPAN 101. The oral aspect of the language is stressed in class.
Prerequisite: SPAN 101 or equivalent.

SPAN 201-3 (BC=4) (4-1) 15 weeks Intermediate Spanish I

Spoken and written Spanish, including grammar, composition, literature and conversation. The literature includes works of modern authors.
Prerequisite: Spanish 30 or SPAN 102 or equivalent.

SPAN 202-3 (BC=4) (4-1) 15 weeks Intermediate Spanish II

The continuation of SPAN 201. Spoken and written Spanish, including grammar, composition, literature and conversation. The literature includes works of modern authors.
Prerequisite: SPAN 201 or equivalent.

Statistics

Note: Not all courses listed may be offered. Check Course Timetable for availability.

STAT 241-3 (BC=3) (3-1) 15 weeks Introduction to Statistics

Elementary statistics. Probability. Descriptive statistics. Sampling distributions. Testing hypotheses. Correlation and regression.
Prerequisite: Math 30-1

STAT 251-3 (BC=4) (3-0-2) 15 weeks

Introduction to Applied Statistics I

Data collection and presentation, descriptive statistics. Probability distributions, sampling distributions and the central limit theorem. Point estimation and hypothesis testing. Correlation and regression analysis. Goodness-of-fit and contingency table.

Prerequisite: Math 30-1

Note: This course may not be taken for credit if credit has already been obtained in any of STAT 241, PSYC 309, SOCI 311, or BUS 306

STAT 365-3 (BC=3) (3-0) 15 weeks

Elements of Probability Theory

Finite probability spaces. Discrete and continuous random variables. Random vectors. Probability density functions and their corresponding distributions, including uniform, binomial, geometric, Poisson, exponential, normal, etc.

Prerequisite: MATH 204 or equivalent

Co-requisite: MATH 302

Theatre & Entertainment Production

Note: Courses open to Theatre & Entertainment Production students only

THTR 105-2 (BC=2) (120 hrs minimum) Production Crew I

This course will be the first introduction of the student to a working knowledge of the technical aspects of entertainment production. Students will apply course instructed learning, including those of stagecraft, drafting, prop building, lighting, sound, and stage management, as well as continued hands-on learning. Students will be assigned to a designated technical area, as well as expected hours of participating in other areas within various productions and events. Students will be assisted by 2nd year students, and instructed by a department technical instructor.

Co-Requisite: THTR 125 and consent of the Department.

THTR 106-2 (BC=2) (120 hrs minimum)

Production Crew II

Continued theoretical and practical instruction towards a working knowledge of the technical aspects of entertainment production.

Prerequisite: THTR 105 and consent of the Department.

THTR 107-2 (BC=2) (120 hrs minimum)

Production Crew III

Continued theoretical and practical instruction towards a working knowledge of the technical aspects of entertainment production. The work may be a new application of practical skills, or be an opportunity to redevelop and strengthen current skills.

Prerequisite: THTR 106 and consent of the Department.

THTR 118-3 (BC=3) (48 hrs)

Scenic Props

Introduction to the theory and techniques of developing scenic props. Presented in workshop format.

THTR 125-4 (BC=4) (74 hrs)

Introduction to Stagecraft I

Entertainment production techniques including stage and shop safety, scenic carpentry. Strong hands-on component.

THTR 126-3 (BC=3) (48 hrs)

Stagecraft II

Continued study of entertainment production techniques, including continued stage and shop safety, scenic carpentry, and theatrical rigging.

Prerequisite: THTR 125

THTR 135-2 (BC=2) (44 hrs)

Sound for the Entertainment Industry

Theory and practice in basic sound for the entertainment industry. Examining the function and operation of professional sound equipment and the fundamentals of sound design.

THTR 136-2 (BC=2) (41 hrs)

Sound for Live Events

Continued theory and practice in basic sound for the entertainment industry. Examine the function and operation of professional sound equipment, and the fundamentals of sound design.

Prerequisite: THTR 135

THTR 145-2 (BC=2)
(42 hrs)
Lighting for the Entertainment Industry I
Theory and practice in basic electricity for the theatre. Function and operation of professional lighting equipment.

THTR 146-2 (BC=2)
(41 hrs)
Lighting for the Entertainment Industry II
Continued theory and practice in basic electricity for the entertainment and theatre. Function and operation of professional lighting equipment.
Prerequisite: THTR 145

THTR 158-3 (BC=3)
(40 hrs)
Drafting for the Entertainment Arts
Introduction to technical communication techniques within the entertainment industry. Emphasis on theatrical drafting, drafting conventions and types of working drawings as important elements in the communication of technical and design requirements.

THTR 168-2 (BC=2)
(36 hrs)
Stage and Event Management
Introduction to fundamentals of the production process in management and communication skills for the entertainment industry.

THTR 176-3 (BC=3)
(40 hrs)
History and Analysis of Entertainment Production
The study of design processes for the entertainment industry. Emphasis will be placed on technical connections to historical theatre and will examine a variety of processes used in project analysis for live performances. Learning and using research skills and problem-solving pathways are the primary course objectives
Corequisite: THTR 158

THTR 205-3 (BC=3)
(180 hrs minimum)
Applied Practice and Theory I
Theoretical and practical instruction in the production of entertainment events through involvement in theatre and entertainment productions. This will allow students to implement and refine skills previously acquired, in both class and practical work.

Students will be assigned a designated area of responsibility within various productions and events.
Prerequisite: THTR 107 and consent of the Department.

THTR 206-3 (BC=3)
(180 hrs minimum)
Applied Practice and Theory II
Theoretical and practical instruction in the production of entertainment events through involvement in theatre and entertainment productions. Students will have the opportunity to redevelop and strengthen previously acquired skills, or they may be assigned to a position meant to introduce new skills. Students will be assigned a designated area of responsibility within various productions and events.
Prerequisite: THTR 205 and consent of the Department.

THTR 207-3 (BC=3)
(180 hrs minimum)
Applied Practice and Theory III
Theoretical and practical instruction in the production of entertainment events. Students will be able to continue refining skills and working on communication and team building skills required in the entertainment industry. Students will be assigned a designated area of responsibility within various productions and events where they will work with first year students in a supervisory role.
Prerequisite: THTR 206 and consent of the Department.

THTR 215-2 (BC=2)
(36 hrs)
Scenic Painting
This course will teach the student a systematic approach to painting theatrical scenery. The class will examine traditional scene painting techniques and the tools and materials that have been developed to support those techniques. Instructed by department staff.
Prerequisite: THTR 176

THTR 258-3 (BC=3)
(40 hrs)
Drawing as Communication
Introduction to perspective rendering and figure drawing as a communication tool within the production processes of entertainment events.
Prerequisite: THTR 158

THTR 265-2 (BC=2)
(30 hrs)
Stage and Event Management II
Continued management and communication skills for the entertainment industry.
Prerequisite: THTR 168

THTR 278-5 (BC=5)
(80 hrs)
Design and Visual Communication within the Entertainment Industry
Examining the creative techniques and visual communication of theatrical design from concept to final presentation. Emphasis will be made on the various forms of communication used by designers. This course will implement skills previously acquired, including those of drawing, drafting, prop building, lighting and stagecraft.
Prerequisite: THTR 176

THTR 285-2 (BC=2)
(30 hrs)
Professional Development I
Researching and developing life-skills and career paths within the Entertainment industry. Accessing information from contacts with educators, practicing professionals, and employers in the entertainment industry.

THTR 286-2 (BC=2)
(42 hrs)
Professional Development II
Researching and developing life-skills and career paths within the Entertainment industry. Accessing information from contacts with educators, practicing professionals, and employers in the entertainment industry.
Prerequisite: THTR 285

THTR 295-2 (BC=2)
(24 hrs)
Intensive Series I
Students will be able to choose areas of interest in the entertainment industry to study at a more advanced level. Material may be presented in workshop, classroom, or through hands-on work.
Prerequisite: THTR 126 and consent of the Department

THTR 296-3 (BC=3)
(56 hrs)
Intensive Series II
Theatre and entertainment production advanced study intensives. Students will be able to choose areas of interest in the entertainment industry to study at a more advanced level.
Prerequisite: THTR 295

THTR 297-3 (BC=3)
(64 hrs)

Intensive Series III

Theatre and entertainment production advanced studies intensives. Students will be able to choose areas of interest at a more advanced level in order to reinforce career choices.

Prerequisite: THTR 296

Theatre Performance and Creation

Note: Courses open to Theatre Performance and Creation students only

THTR 100-2 (BC=2)
(33 hrs)

Theatre Research & Development I

An introduction for the theatre artist into the practical and theoretical approaches to play analysis, theatrical forms and styles.

THTR 101-2 (BC=2)
(30 hrs)

Theatre Research & Development II

Continued practical and theoretical investigation of plays, theatrical forms and styles.

Prerequisite: THTR 100

THTR 110-1 (BC=1)
(11 hrs)

The Business of Theatre I

Introduction to the business of theatre as it pertains to the individual theatre artist.

THTR 111-1 (BC=1)
(10 hrs)

The Business of Theatre II

Continued investigation of the business of theatre as it pertains to the individual theatre artist and theatre collaborators.

Prerequisite: THTR 110

THTR 120-3 (BC=3)
(44 hrs)

The Expressive Body I

An introduction to physical techniques and practices as it relates to theatre acting and creation work.

THTR 121-3 (BC=3)
(40 hrs)

The Expressive Body II

Continued development of physical techniques and practices as it relates to theatre acting and creation work.

Prerequisite: THTR 120

THTR 130-3 (BC=3)
(44 hrs)

The Expressive Voice I

Introduction to the techniques and practices of voice training as it relates to theatre acting, singing and creation work.

THTR 131-3 (BC=3)
(40 hrs)

The Expressive Voice II

Continued development of voice techniques and practices as it relates to theatre acting, singing and creation work.

Prerequisite THTR 130

THTR 140-3 (BC=3)
(30 hrs class/36 hrs lab)

Acting I

An introduction to improvisation as it relates to the process of acting and creating for the theatre.

THTR 141-3 (BC=3)
(30 hrs class/30 hrs lab)

Acting II

Continued exploration of the acting and creation process as it relates to theatre text.

Prerequisite: THTR 140

THTR 150-2 (BC=2)
(90 hrs)

Theatre Artist Studio I

An introductory level of competencies for further training practices, rehearsal processes and presentations of published plays, new plays and/or self-created works as it relates to ensemble theatre creation and performance.

THTR 151-3 (BC=3)
(135 hrs)

Theatre Artist Studio II

An intermediate level of competencies for rehearsal and performance of published plays, new plays and/or self-created works as it relates to ensemble theatre creation and performance.

Prerequisite THTR 150

THTR 160-3 (BC=3)
(40 hrs)

Introduction to Devising Theatre

An introduction to concepts and alternative approaches for devising original theatre pieces.

Prerequisite: ENGL 219 and THTR 140

THTR 200-1 (BC=1)
(18 hrs)

Theatre Research and Development III

Advanced practical and theoretical investigation of theatre text, form and styles.

Prerequisite: THTR 101

THTR 210-1 (BC=1)
(9 hrs)

The Business of Theatre III

Further investigation of the business of theatre as it pertains to the individual theatre artist and the global theatre industry.

Prerequisite: THTR 111

THTR 220-3 (BC=3)
(36 hrs)

The Expressive Body III

Advanced application of physical expression techniques and practices as it relates to theatre acting and creation work.

Prerequisite: THTR 121

THTR 230-3 (BC=3)
(36 hrs)

The Expressive Voice III

Advanced application of voice techniques and practices as it relates to theatre acting, singing and creation work.

THTR 240-3 (BC=3)
(30 hrs class/24 lab)

Acting III

Advanced application of the acting and creation process as it relates to theatre styles.

Prerequisite: THTR 141

THTR 250-3 (BC=3)
(135 hrs)

Theatre Artist Studio III

An advanced level of rehearsal process and performance as it relates to a piece of theatre (published, new work or self creation) and/or placement in a theatre related field study environment.

Prerequisite: THTR 151

THTR 251-5 (BC=5)
(225 hrs)

Theatre Artist Studio IV

An advanced level of rehearsal process and performance as it relates to a piece of theatre (published, new work or self creation) and/or placement in a theatre related field study environment. This course will also focus on self created solo performance along with preparation for entering the professional realm of theatre or going on to further advanced levels of training.

Prerequisite: THTR 250

THTR 260-8 (BC=8)
(120 hrs class/30 hrs lab)

Creative Fusion

An intense advanced level laboratory integrating disciplines of the theatre as they relate to solo and group theatre creation and performance. This course, taught by a team of specialists, will have students applying advanced levels of movement, acting and voice skills for development and presentation of both published works and self created works.

Prerequisites: THTR 220, THTR 230, THTR 240 & THTR 160.

Transitional Vocational

TVOC 010-4 (BC=4)
(4-0) 15 weeks

Self-Awareness

Developing and increasing your understanding of self and how you present that to others.

TVOC 011-4 (BC=4)
(4-0) 15 weeks

Vocational Preparation

Introduction to the world of work. Examining reasons for working, areas that influence success on the job, getting a job, and keeping it.

TVOC 012-2 (BC=2)
(2-0) 15 weeks

Recreation and Community Living

Studying basic concepts of fitness, nutrition and lifestyle planning. Identifying services provided by local community agencies and facilities.

TVOC 013-5 (BC=5)
(300 hours) 15 weeks

Jobsite Skills Training I

"Hands-on" skill training in the employment area best suited to your interests and abilities. Three days per week.

TVOC 014-3 (BC=3)
(3-0) 16 weeks

Interpersonal Skills

Communicating with others in the most effective way. Conflict resolution skills, assertiveness, problem-solving and stress management.

TVOC 015-3 (BC=3)
(3-0) 16 weeks

Skills for Employment

Exploring occupational choices and looking at individual abilities and interests. Learning and practicing job search techniques.

TVOC 016-3 (BC=3)
(3-0) 16 weeks

Skills for Independence

Combines skills necessary for banking and budgeting with skills needed for wise shopping and having an apartment.

TVOC 017-5 (BC=5)
(320 hours) 16 weeks

Jobsite Skills Training II

"Hands-on" skill training in the employment area best suited to your interests and abilities. Three days per week.

TVOC 018-5 (BC=5)
(240 hours) 8 weeks

Block Practicum

Full-time work experience in the field you want to find a job in. Hours of work during this placement will vary depending on the business requirements.

Unit Clerk

UNIT 100-2 (BC=2)
(68 lab hours)

Computer Skills

This is a self-directed course covering an introduction to computers, together with word processing and spreadsheet applications. This course will provide a foundation of computer literacy for the Unit Clerk field.

*The course is designed as a self-directed course but a mandatory seminar is required to provide students with support; please register in both the Lecture and Seminar sections of this course.

Prerequisites: None

Prior Learning recognition, based on a skills appraisal, is available for students with computer skills but application for PLAR must be completed by the Add/Drop date.

UNIT 101-1 (BC=1)
(42 lab hours)

Speed Building

Computer keyboard speed and accuracy building.

UNIT 102-4 (BC=4)
(60 hours)

Medical Terminology

Using and interpreting medical terminology, abbreviations and symbols commonly used in the health care system.

UNIT 103-7 (BC=7)
(105 hours)

Processing Medical Orders

Transcribing medical orders using a manual (paper) process combined with entering orders into current Alberta Health Services software. This course is taught offsite.

Prerequisite or Co-requisite: UNIT 102

UNIT 105-2 (BC=2)
(145 hours)

Preceptored Practice

Experience in a health care setting with a Unit Clerk preceptor.

Prerequisites: Unit Clerk 100, 101, 102, 103, 106, 107

UNIT 106-3 (BC=3)
(45 hours)

Exploring the Role of the Unit Clerk

Concepts, skills and attitudes necessary to perform the role of the Unit Clerk.

UNIT 107-3 (BC=3)
(45 hours)

Essential Communication Skills for Unit Clerks

Develop critical oral, written and non-verbal communication skills including telephone and interview skills. Create an effective resume, cover letter, and portfolio.

Virtual Assistant

VA 100-3 (BC=3)

(3-0) 15 weeks

Document Formatting

Using MS Word emphasis will be on the production of mailable correspondence, (including merge), tabulated and tabled material, basic reports, minutes, and itineraries. The focus will also be on building keyboarding speed and accuracy.

VA 110-3 (BC=3)

(3-0) 15 weeks

Communication Skills

Produce professional letters, memos, reports, and articles. Other topics covered include: Internet research, teleconferencing, networking, and telecommuting.

VA 120-3 (BC=3)

(3-0) 15 weeks

Basic Bookkeeping for a Home Business

Practical accounting procedures for a small business, including MS Excel. This basic course is not intended to train students in accounting procedures at the level necessary to offer accounting services to clients. See OADM 220 as an option for further training in accounting.

VA 130-3 (BC=3)

(3-0) 15 weeks

Starting a Virtual Assistant Business

Topics include: Business plan, marketing plan, licenses, tax laws, business equipment, setting a rate, troubleshooting office equipment. Survey of several topics that will be covered in more depth in other courses.

VA 140-3 (BC=3)

(3-0) 15 weeks

Office Management for Virtual Businesses

Topics include: Time management, developing business relationships, business ethics, handling conflicts, stress management, separating home life and business, office setup and layout of a home office, meetings and event planning.

VA 150-3 (BC=3)

(3-0) 15 weeks

Marketing Your Virtual Business

Topics include: Determine a niche, network with other Virtual Assistants, design a company web site, company image, VA associations.

VA 160-3 (BC=3)

(120 hours) 15 weeks

Virtual Practicum

Complete 120 hours of practical online experience with a business. Take part in online seminars to discuss the practicum with the practicum coordinator. Grading will be credit/non-credit.

Prerequisites: Complete all the required courses and one option course while maintaining a GPA of 2.00 with no grade lower than D.

VA 170-3 (BC=3)

(3-0) 15 weeks

Web Design

Learn the basic to advanced functions of Macromedia Dreamweaver to create web sites, including: formatting text, inserting images, creating hyperlinks, building tables and frame sets, adding multimedia content and dynamic HTML features.

VA 180-3 (BC=3)

(3-0) 15 weeks

Technologies for the Virtual Office

An introduction to online technologies currently being used by Virtual Assistants and their clients. Topics include: Autoresponders, auto payments, remote access, online file sharing, product/service demos, social media organization platforms and creating online newsletters and videos.

Zoology

Note: Not all courses listed may be offered. Check Course Timetable for availability.

ZOOL 325-3 (BC=4)

(3-3) 15 weeks

Comparative Anatomy of the Vertebrates

Vertebrate structure and functional significance. Chordates, origin of vertebrates, survey of vertebrate classes, early development and major systems. Emphasis is on the mammals.

Prerequisite: BIOL 218

ZOOL 342-3 (BC=3)

(3-0) 15 weeks

Animal Physiology: Intercellular Communication

Communication between cells. Functioning of the nervous and muscular system. Sensing of the environment. Hormones, regulation and action. Immunity. Examples from invertebrate and vertebrates.

Prerequisite: BIOL 217

ZOOL 350-3 (BC=4)

(3-3) 15 weeks

Survey of the Invertebrates

Systematics, functional anatomy, life cycles, distribution, evolution, and importance of major invertebrate taxa. Brief survey of minor taxa. Selected topics in invertebrate biology.

Prerequisite: BIOL 218

CAREER AND ACADEMIC PREPARATION COURSES

Note: You must have strong prerequisite skills to be successful in higher course levels.

Note: Some courses in our program may be taken through independent study subject to Chairperson approval.

Accounting

ACCT 075-6 (BC=6)
(6-0) 15 weeks
Basic Accounting I

This course is equivalent to OADM 120.
High School Equivalent: Grade 10-11 level.

Adult Development

ADEV 061-2 (BC=2)
15 weeks

Work Place Learning

Learners will complete a combination of work site learning and/or volunteerism and instructional modules designed to meet individual needs on a continuum of pre-employment skills to workplace experience.

Prerequisite or Co-requisite: ADEV 040 or ADEV 062 or consent of the Department.

ADEV 062-3 (BC=3)
(3-0) 15 weeks

Learning and Working Cultures

Learners will participate in a variety of activities to assist them to experience and understand the culture of learning and working. Activities may include: portfolio development, career exploration, work place ethics, learning strategies.

ADEV 063-2 (BC=2)
15 weeks

Occupational Elements

This course allows learners to contract to complete learning experiences which result in certifications such as First Aid and WHIMIS that will increase readiness for immediate employment.

Note: May not be offered every year.

ADEV 065-3 (BC=3)
(3-0) 15 weeks

Essential Skills for Learning and Working I

Learners will complete modules based on assessed individual needs in the areas of: Building Personal Capacity, Planning and Managing, Interacting and Communicating.
Prerequisite: ADEV 062

ADEV 066-3 (BC=3)
15 weeks

Essential Skills for Learning and Working II

Learners will complete additional modules based on assessed individual needs in the areas of: Building Personal Capacity, Planning and Managing, Interacting and Communicating.

Prerequisite: ADEV 065

Note: May not be offered every year.

ADEV 067-3 (BC=3)
15 weeks

Essential Skills for Learning and Working III

Learners will complete additional modules based on assessed individual needs in the areas of: Building Personal Capacity, Planning and Managing, Interacting and Communicating.

Prerequisite: ADEV 066

Note: May not be offered every year.

ADEV 068-1 (BC=1)
(0-1-0) 15 weeks

Supported Study

Learners will participate in a systematic approach to study activities, taking advantage of various resources. Study and learning strategies will include formal and informal activities and resources such as student study groups, instructor consultation, Learning Resource Center, Computer Lab, Counselling & Learning Support. Learners will be responsible for planning and recording their plans and activities.

Note: Check with Office 1809 for the forms to record study time.

ADEV 069-2 (BC=2)
(0-2-0) 15 weeks

Supported Study

Learners will participate in a systematic approach to study activities, taking advantage of various resources. Study and learning strategies will include formal and informal activities and resources such as student study groups, instructor consultation, Learning Resource Center, Computer Lab, Counselling & Learning Support. Learners will be responsible for planning and recording their plans and activities.

Note: Check with Office 1809 for the forms to record study time.

Biology

BIOL 075-4 (BC=4)
(4-1) 15 weeks

Introductory Biology

For students with no biology background. Includes basic cell chemistry and cell function; genetics and evolution; classification of living things. Lab work is related to class discussion and gives you practical experience in a lab setting.

High School Equivalent: Grade 10-11 level

Prerequisite: ENGL 075 or English 10

Co-requisite: ENGL 075

BIOL 095-6 (BC=6)
(5-2) 15 weeks

Preparatory Biology

Principles of human anatomy and physiology. Basic environmental biology. This course will prepare you for more advanced studies in biology. Lab work is related to class discussions, and allows you to improve certain biology lab skills. A strong background in basic chemistry recommended.

High School Equivalent: Grade 12 level

Prerequisite: BIOL 075 or Biology 20 (Alberta)

Chemistry

Note: You need a lab coat and safety glasses to take part in chemistry labs. You can buy these items at the Bookstore. Please note that contact lenses are not allowed in the laboratory.

CHEM 075-4 (BC=4)
(4-1) 15 Weeks

Introductory Chemistry

For students with no chemistry background. Elements and the periodic table. Chemical bonding. Nomenclature. Chemical reactions. Stoichiometry. Lab work is related to class discussions.

High School Equivalent: Grade 10-11 level
Prerequisite or Co-requisite: MATH 075, Math 10, Math 10 (Pure) or Math 23.

CHEM 095-6 (BC=6)
(5-0-2) 15 weeks

Preparatory Chemistry

For students with previous study in bonding, nomenclature, and stoichiometry. Gases. Solutions. Energy. Electrochemistry. Equilibrium. Acids and Bases. Lab work is related to class discussions.

High School Equivalent: Grade 12 level
Prerequisite: CHEM 075 or Chem 20, and MATH 075 or Math 10.

Computers

BCMT 050-4 (BC=4)
(3-2) 15 weeks

Basic Computer Skills

For students who have very minimal computer skills. An introduction to practical basic computer skills including using windows, keyboarding, word processing, and using Internet e-mail. A hands-on integrated approach designed for the apprehensive computer beginner.

CMPT 073-1 (BC=1)
Intermediate Keyboarding II

See page 137 for course description.

CMPT 085-4 (BC=4)
(3-2) 15 weeks

Introduction to Personal Computers

See page 137 for course description.

CMPT 090-4 (BC=4)
(3-2) 15 weeks

Information Processing Using Microcomputers

See page 137 for course description.

English

ENGL 050-5 (BC=5)
(4-2S) 15 weeks

Basic English

For students who have been away from school for some time. This course is designed to develop reading, comprehension and vocabulary skills and to develop writing skills. It provides a basic introduction to literature.

ENGL 075-5 (BC=5)
(5-0) 15 weeks

Reading, Viewing and Composition

Introduction of major literary genre. Development of critical and analytical reading and viewing skills. Presentation of responses to text in written and oral form. Development and improvement of writing skills, including grammar study. Introduction to research and documentation.

High School Equivalent: Grade 11 level
Prerequisite: ENGL 050 or consent of the Department.

ENGL 090-5 (BC=5)
(5-0) 15 weeks

Critical and Analytical Study of Texts

Read and respond to non-fiction, poetry, short and long fiction, and drama. Respond critically and analytically to non-print texts such as short films, video clips, documentaries, etc. Employ grammatical structures to demonstrate increasingly sophisticated writing style. Expand and polish research skills.

High School Equivalent: ELA 30-2
Prerequisite: ENGL 075, English 20-1, ELA 20-2, English 23 or consent of the Department.

ENGL 095-5 (BC=5)
(5-0) 15 weeks

Literature and Composition

The major literary forms of prose, drama, and poetry. Critical and analytical reading. Essay writing to develop clear, concise effective arguments.

High School Equivalent: Grade 12 level
Prerequisite: English 20, ELA 20-1, ENGL 090, ELA 30-2 or consent of the Department.

Mathematics

Note: Students who have been out of high school for one year or more will be required to be tested prior to placement in a mathematics course in the Career and Academic Preparation Program. Please book for your test by calling 342-3400 or 343-4026.

MATH 050-5 (BC=5)
(5-0) 15 weeks

Preparatory Mathematics

A basic mathematics course for students requiring algebra or applied mathematics. Operations on rational numbers; introduction to statistics; Metric and English measurement; geometry in 1, 2 & 3 dimensions; introduction to algebra; and solving equations.

MATH 075-5 (BC=5)
(5-0) 15 weeks

Introductory Algebra

An introductory course for students requiring algebra. Topics include; polynomials and factoring; linear equations and their graphs; solving equations and inequalities; problem solving; geometry; and trigonometry.

Prerequisite: MATH 050, Math 13 or Math 10 Prep

MATH 085-5 (BC=5)
(5-0) 15 weeks

Intermediate Algebra

An intermediate course for students requiring algebra. Topics include: functions, relations and graphing; systems of equations; radicals and their properties; rational expressions; quadratic equations and functions; and selected topics from trigonometry.

Prerequisite: MATH 075, Math 10C, or Math 23 or 33

MATH 096-6 (BC=6)
(6-0) 15 weeks

Precalculus: Algebra & Trigonometry

A senior math course. Topics include: quadratic functions; polynomial and rational functions; logarithmic and exponential functions; trigonometric functions; sequences and series; permutations and combinations. Problem solving methods will be emphasized.

Prerequisite: MATH 085 or Math 20-1

MATH 097-5 (BC=5)
(5-0) 15 weeks**Elementary Calculus and Modern Mathematics**

A senior course recommended for students who will be taking university calculus courses. Calculus topics include: limits and continuity; derivatives; graphing; applications of derivatives; integration; applications of integration. Topics in modern mathematics will be chosen from the mathematics of social choice, management science, growth and symmetry.

High School Equivalent: Math 31

Prerequisite: MATH 096 or Math 30-1

Corequisite: Math 096 or Math 30-1

Note: Students with an applied mathematics background from high school will be required to upgrade according to the results of their math placement test.

Music

MUSI 192-3 (BC=3)
(3-0) 15 weeks**Rudiments of Music Theory and Aural Skills**

For students with little or no formal music theory and aural skills background who have interest in these basics of music, or who are preparing to enter the Music Diploma program. Designed to acquire a basic working knowledge in traditional theory: notation, scales, key and time signatures, intervals, terminology, reading, identification by ear and by sight of melodies, rhythms and harmonies. Will prepare prospective students for entrance into Red Deer College's Music Diploma program.

Physics

PHYS 075-4 (BC=4)
(4-1) 15 weeks**Introductory Physics**

Measurement, data analysis, SI units. Heat applications. Pressure, fluids, buoyancy. Waves, sound, light and optics. Lab and project work related to classroom concepts.

High School Equivalent: Grade 10-11 level

Prerequisite: MATH 075, Math 10 or 23 or consent of the Department.

PHYS 095-6 (BC=6)
(5-0-2) 15 weeks**Preparatory Physics**

Measurement and data analysis review. Linear and 2-dimension motion. Vectors with applications; statics and dynamics. Gravity, work & energy. Electricity and magnetism theory and application.

High School Equivalent: Grade 12 level.

Prerequisite: Physics 20 or PHYS 075, and

MATH 085 or Math 20-1 or Math 30-2 or

consent of the Department.

Science

SCIE 050-5 (BC=5)
(5-0) 15 weeks**Basic Science**

Basic scientific theories and principles in biology, chemistry and physics. Includes a discussion of the structure of matter, chemical reactions, energy and motion, heat, water, living things, ecology and human body systems. This course will prepare you for high school level sciences and is highly recommended.

Note: May not be offered every semester

Social Studies

SOST 090-5 (BC=5)
(5-0) 15 weeks**Canadian Studies**

Explores multiple perspectives on globalization and the impact of globalization on identity, economies, and quality of life. This course also explores the complexities of nationalism, including Canadian and international contexts. The origins of nationalism and its influence globally, regionally, and internationally are also considered. Ideologies are also considered as they relate to contemporary global issues.

High School Equivalent: Social Studies 20-2/30-2

Prerequisite or Co-requisite: English 75 or ELA 20-2, or consent of Department.

SOST 095-5 (BC=5)
(5-0) 15 weeks**Twentieth Century World**

Two major topics: political and economic systems, and cooperation and conflict in the twentieth century. The development of the ideologies of fascism, socialism, communism, and capitalism. Major conflicts of the twentieth century, including WWI and WWII.

High School Equivalent: Grade 12 level

Prerequisite: SOST 085 or Social Studies 20 or consent of the Department.

Prerequisite or Co-requisite: ENGL 095 or ELA 30-1, or ELA 30-2 or consent of the Department.

ADULT BASIC EDUCATION COURSES

Canadian Studies

CAST 050-5 (BC=5)
(5-0) 15 weeks

Canadian Studies

Students will focus on citizenship and becoming involved citizens. Skills relevant to employability, job success, and personal management will be covered. Topics may include problem-solving, conflict resolution, teamwork, and critical thinking in the workplace.

Note: Available at Rocky Mountain House campus only.

Mathematics

MATH 038-5 (BC=5)
(5-0) 15 weeks

Basic Math

Basic skills in adding, subtracting, multiplying and dividing whole numbers, plus an introduction to fractions.

Note: May not be offered every year

MATH 039-5 (BC=5)
(5-0) 15 weeks

Basic Math

Understanding fractions, decimals, geometry, measurement.

MATH 040-5 (BC=5)
(5-0) 15 weeks

Basic Math

A review of fractions and whole numbers, plus concentration on decimals, percent, ratio and proportion, measurement, and graphing.

Reading

READ 038-5 (BC=5)
(5-0) 15 weeks

Basic Reading

A structured reading course which provides basic reading skills and improves vocabulary. Students entering this level may have limited reading skills.

Note: May not be offered every year

READ 039-5 (BC=5)
(5-0) 15 weeks

Basic Reading

Students will read a variety of materials more fluently. Vocabulary development and reading comprehension are stressed.

Note: May not be offered every year

READ 040-5 (BC=5)
(5-0) 15 weeks

Basic Reading

Increased focus on improving reading skills, enriching vocabulary and developing critical thinking skills. Students entering this level are reasonably fluent readers.

Writing

WRIT 038-5 (BC=5)
(5-0) 15 weeks

Basic Writing

Sentences, simple paragraphs, spelling, and phonics. Students entering this level may have limited writing skills.

Note: May not be offered every year

WRIT 039-5 (BC=5)
(5-0) 15 weeks

Basic Writing

Sentence construction and paragraphs, spelling rules and strategies, journal writing. Introduction to grammar.

Note: May not be offered every year

WRIT 040-5 (BC=5)
(5-0) 15 weeks

Basic Writing

Concentration is now focused on writing clearly and confidently to prepare for further studies or employment. Includes a study of grammar.

GED & PreTrades

ABES 043-5 (BC=5)
(5-0) 15 weeks

PreTRADES

Trades math, applied physics, and English necessary for passing the trade entrance examination administered by Alberta Career Development (excludes electrical).

Prerequisite: MATH 040 and ENGL 040 or equivalent.

SERIES VISUAL ARTS SUMMER SCHOOL

ARTX 101-1

(30 hours) 1 week

Introductory Drawing

Basic theory and practice of drawing.

ARTX 102-1

(30 hours) 1 week

Landscape Drawing

Theory and practice of drawing the landscape.

ARTX 103-1

(30 hours) 1 week

Design

Theory and practice of design and visual communication.

ARTX 104-1

(30 hours) 1 week

Functional Design

Theory and practice of designing functional objects.

ARTX 105-1

(30 hours) 1 week

Three Dimensional Design

Theory and practice of three dimensional design.

ARTX 106-1

(30 hours) 1 week

Intermediate Drawing

Theory and practice of drawing with an emphasis on developing more advanced skills.

ARTX 107-1

(30 hours) 1 week

Expressive Drawing

Theory and practice of drawing with an emphasis on development of a personal drawing style.

ARTX 108-1

(30 hours) 1 week

Figure Drawing

Theory and practice of drawing the human figure.

ARTX 109-1

(30 hours) 1 week

Anatomical Drawing

Theory and practice of anatomical drawing

ARTX 110-1

(30 hours) 1 week

Mixed Media Drawing

An introduction to the theory and practice of mixed media drawing.

ARTX 111-1

(30 hours) 1 week

Introductory Painting

A perceptual approach to painting.

ARTX 112-1

(30 hours) 1 week

Still Life Painting

Theory and practice of painting still life.

ARTX 113-1

(30 hours) 1 week

Exploring Painting Media

An introduction to a variety of painting media.

ARTX 114-1

(30 hours) 1 week

Approaches to Painting

An exploration of various approaches to painting.

ARTX 115-1

(30 hours) 1 week

Intermediate Landscape Painting

Developing more advanced landscape drawing skills.

ARTX 116-1

(30 hours) 1 week

Painting on Location

Theory and practice of painting in an off-campus setting.

ARTX 117-1

(30 hours) 1 week

Portrait Painting

Theory and practice of portrait painting.

ARTX 118-1

(30 hours) 1 week

Figure Painting

Theory and practice of painting the human figure.

ARTX 119-1

(30 hours) 1 week

Introductory Watercolour Painting

Basic theory and practice of watercolour painting.

ARTX 120-1

(30 hours) 1 week

Intermediate Watercolour Painting

Developing more advanced watercolour painting skills.

ARTX 121-1

(30 hours) 1 week

Introductory Wheelthrowing

Basic theory and practice of using the potter's wheel.

ARTX 122-1

(30 hours) 1 week

Basic Handbuilding Techniques

An introduction to sculpture processes using clay.

ARTX 123-1

(30 hours) 1 week

Surface Treatments for Ceramic Sculpture

An introduction to surface treatments for ceramic sculpture.

ARTX 124-1

(30 hours) 1 week

Introduction to Ceramic Tile Making

Basic theory and practice of ceramic tile making.

ARTX 125-1

(30 hours) 1 week

Introductory Raku

Basic theory and practice of the raku ceramic firing process.

ARTX 126-1

(30 hours) 1 week

Mold Making for Slip Casting

Theory and practice of making molds for ceramic slip casting.

ARTX 127-1

(30 hours) 1 week

Clay Modelling

Introduction to the process of clay modelling.

ARTX 128-1*(30 hours) 1 week***Ceramic Sculpture**

Sculptural process using clay.

ARTX 129-1*(30 hours) 1 week***Low Fire Glazing**

Theory and practice of low fire ceramic glazing.

ARTX 130-1*(30 hours) 1 week***High Fire Glazing**

Theory and practice of high fire ceramic glazing.

ARTX 131-1*(30 hours) 1 week***Wood Fire Glazing**

Theory and practice of the wood firing process for ceramics.

ARTX 132-1*(30 hours) 1 week***Creative Glazing**

Emphasizing design and creativity in the application of ceramic glazes.

ARTX 133-1*(30 hours) 1 week***Intermediate Raku**

Development of personal style and creativity using the Raku Ceramic Firing process.

ARTX 134-1*(30 hours) 1 week***Advanced Tilemaking**

Theory and practice of more advanced techniques of ceramic tilemaking.

ARTX 135-1*(30 hours) 1 week***Intermediate Wheelthrowing**

Emphasis is on refining techniques of throwing and developing more complex forms on the potter's wheel.

ARTX 136-1*(30 hours) 1 week***PaperClay for Ceramic Sculpture**

The sculptural process using paperclay.

ARTX 137-1*(30 hours) 1 week***Advanced Functional Wheelthrowing**

Studio bases. The development of complex functional forms on the potter's wheel.

ARTX 138-1*(30 hours) 1 week***Advanced Wheelthrowing**

Studio bases. Focussing on form and function.

ARTX 139-1*(30 hours) 1 week***Ceramic Form and Surface**

Emphasis on refining personal imagery using advanced techniques of ceramic construction and surface design.

ARTX 140-1*(30 hours) 1 week***Introductory Sculpture**

An introduction to the sculptural process.

ARTX 141-1*(30 hours) 1 week***Figure Sculpture**

Theory and practice of sculpting the human figure.

ARTX 142-1*(30 hours) 1 week***Sculpting the Head**

Theory and practice of sculpting the human head.

ARTX 143-1*(30 hours) 1 week***Rubber Mold Making**

Theory and practice of making rubber molds for bronze casting.

ARTX 144-2*(60 hours) 2 weeks***Bronze Casting**

Theory and practice of the lost wax method of bronze casting.

ARTX 145-1*(30 hours) 1 week***Patina Workshop**

An introduction to the patination process for metals.

ARTX 146-2*(60 hours) 2 weeks***Sculpting the Body**

Theory and practice of sculpting the human body, including skeletal structures and musculature.

ARTX 147-1*(30 hours) 1 week***Etching**

Basic theory and practice of the etching process.

ARTX 148-1*(30 hours) 1 week***Monotype Printmaking**

Basic theory and practice of monotype printmaking.

ARTX 149-1*(30 hours) 1 week***Plastercast Printmaking**

Basic theory and practice of Plastercast Printmaking.

ARTX 150-1*(30 hours) 1 week***Japanese Woodcut Printmaking**

Basic theory and practice of the process of Japanese woodcut printmaking.

ARTX 151-1*(30 hours) 1 week***Wood Engraving**

Basic theory and practice of wood engraving.

ARTX 152-1*(30 hours) 1 week***Collography**

An introduction to the theory and practice of collography.

ARTX 153-1*(30 hours) 1 week***Relief Printmaking**

An introduction to the process of relief printmaking using linocuts.

ARTX 154-1*(30 hours) 1 week***Introductory Glassblowing**

Basic theory and practice of glassblowing.

ARTX 155-1*(30 hours) 1 week***Introductory Hand Bookbinding**

Basic theory and practice of hand bookbinding.

ARTX 156-1*(30 hours) 1 week***Traditional Hand Bookbinding**

Basic theory and practice of hand bookbinding using traditional methods.

ARTX 157-1

(30 hours) 1 week

Hand Formed Metal

Basic theory and practice of hand raising metal.

ARTX 158-1

(30 hours) 1 week

Fabric Techniques

An introduction to the theory and practice of surface design on fabric.

ARTX 159-1

(30 hours) 1 week

Metal Casting

Basic theory and practice of casting metal for jewellery making.

ARTX 160-1

(30 hours) 1 week

Intermediate glassblowing

Theory and practice of more advanced techniques of glassblowing.

ARTX 161-1

(30 hours) 1 week

Glass Sculpture

The sculptural process using hot glass.

ARTX 162-1

(30 hours) 1 week

Intermediate Hand Bookbinding

Theory and practice of more advanced techniques including non-adhesive bookbinding.

ARTX 163-1

(30 hours) 1 week

Advanced Jewellery Techniques

Refinement of techniques and development of personal styles through the creative process.

ARTX 164-1

(30 hours) 1 week

Intermediate Silk Dyeing

Theory and practice of silk dyeing using traditional Japanese techniques.

ARTX 165-1

(30 hours) 1 week

Fashion Design

An introduction to basics of fashion design including pattern making, cutting and construction.

ARTX 166-1

(30 hours) 1 week

Paper Marbelling

Theory and practice of Japanese and European techniques of paper marbelling.

ARTX 167-1

(30 hours) 1 week

Stained Glass

A studio based class in the basic techniques of stained glass, including copper foil and lead construction methods.

ARTX 168-1

(30 hours) 1 week

Glass Fusing

An introduction to the techniques of kiln fired glass.

ARTX 169-1

(30 hours) 1 week

Hand Papermaking

The theory and practice of hand papermaking emphasizing technique and creativity.

ARTX 170-1

(30 hours) 1 week

Quilting

The design and construction of quilts, including colour theory, stitching techniques and historical references.

ARTX 171-1

(30 hours) 1 week

Weaving

Theory and practice of weaving.

ARTX 172-1

(30 hours) 1 week

Photography

Fundamental technical and aesthetic aspects of using the camera and photographic materials.

ARTX 173-1

(30 hours) 1 week

Furniture Making

Studio based introduction to the design and construction of contemporary furniture.

INTERNATIONAL LEARNING OPPORTUNITIES



Part of RDC's Internationalization Strategy is to foster international awareness and understanding. Courses appearing contain a

significant international component or are offered in an international setting.

ART 201-3 Art History I

See page 138 for course description

ART 203-3 Art History II

See page 138 for course description

ART 301-3 Art History

See page 138 for course description

ART 303-3 Art History

See page 138 for course description

ART 305-3 Art History

See page 138 for course description

ART 306-3 Art History

See page 138 for course description

ECON 201-3 Introduction to Microeconomics

See page 154 for course description

ECON 202-3 Introduction to Macroeconomics

See page 154 for course description

ECON 323-3 International Economics

See page 154 for course description

ECON 337-3 Development Economics

See page 154 for course description

ECON 382-3 Intermediate Macroeconomic Theory

See page 155 for course description

ENGL 391-3 Topic In International Literature

See page 162 for course description

ENGL 392-6 International English Literature

See page 162 for course description

HIST 311-6 International Relations in the 20th Century

See page 166 for course description

HIST 314-3 Europe in the Era of the World Wars, 1900-1945

See page 166 for course description

HIST 315-3 Europe in the Era of the Cold War, 1942-1991

See page 166 for course description

HIST 349-6 The British Empire and Commonwealth

See page 166 for course description

INTD 370-3 Survey on International Health

See page 172 for course description

POLI 360-6 International Relations

See page 190 for course description

The following courses offer the opportunity for study in an international setting:

KENYA

BIOL 318-3 Principles of Ecology

See page 143 for course description

KENYA

ANTH 323-3 Ethnographic Survey of Africa

See page 137 for course description

BELIZE

ZOOL 350-3 Survey of the Invertebrates

See page 200 for course description

In addition, the following courses have a significant international perspective:

ANTH 200, 201, 307; GEOG 251, 381; HIST 207, 208, 209, 301, 314, 315, 333, 334, 349; POLI 388, 389

For further information please contact the respective department Chairs.

International Partners

Ecole Supérieure de Commerce International Du Pas-De Calais (ESCI)
Saint Omer, France
- Exchange Agreement

Hokkaido Asai Gakuen University
Hokkaido, Japan
- Exchange Agreement

NOTES

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Funding & Awards	403.342.3254
International Student Services	403.342.3400
Learning Support Services	403.343.4099
Prior Learning Assessment	403.342.3219
Registrar's Office	403.342.3400
Residence	403.342.3257
Students' Association	403.342.3200

.....➔ The web version is the official academic calendar. Go to: www.rdc.ab.ca/academic_calendar