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.
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 students must take ACCT 204. Diploma students may take either ACCT 104 or 204.

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

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

ACCT 210-4  (BC=5)
(4-1) 15 weeks
Intermediate Financial Accounting II

ACCT 210-4  (BC=5)
(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 311-3 (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 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 weeks  
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 hominin 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.
COURSE DESCRIPTIONS

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.
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. Developing and realizing sculpture using various techniques and materials.
Prerequisite: ART 363.
Co-requisite: ART 499
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.
Note: Not eligible for challenge.

ART 377-3 (BC=5) (4-2) 15 weeks
Printmaking II
Silkscreen (serigraph) printmaking.
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.
Note: Not eligible for challenge.

ART 383-3 (BC=5) (4-2) 15 weeks
Sculpture III
Further study and work in sculpture. Prequisite: 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.
## 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.

## Statics

**AMET 120-3** *(BC=3)*

*(3-0-0)* 15 weeks

**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**

## Materials Science

**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

## Fluid Mechanics

**AMET 130-2** *(BC=2)*

*(2-0-1)* 15 weeks

**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**

## Thermodynamics

**AMET 135-3** *(BC=3)*

*(3-0-0)* 15 weeks

**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**

## Computer Aided Design

**AMET 140-2** *(BC=2)*

*(2-1-1.5)* 15 weeks

**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**
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| 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. |
| 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. 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. |
### Automotive Service

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<td>AUTO 106-1</td>
<td>1</td>
<td>Basic Transmissions</td>
</tr>
<tr>
<td>AUTO 107-4</td>
<td>4</td>
<td>Steering and Suspension</td>
</tr>
<tr>
<td>AUTO 108-5</td>
<td>5</td>
<td>Wheel Alignment</td>
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<tr>
<td>AUTO 109-5</td>
<td>5</td>
<td>Engine Fundamentals</td>
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<tr>
<td>AUTO 110-2</td>
<td>2</td>
<td>Electrical II</td>
</tr>
<tr>
<td>AUTO 180-1</td>
<td>1</td>
<td>Practicum I</td>
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<tr>
<td>AUTO 181-2</td>
<td>2</td>
<td>Practicum II</td>
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</table>

### Biochemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>BC</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOC 301-3</td>
<td>3</td>
<td>Introductory Biochemistry</td>
</tr>
<tr>
<td>BIOC 393-3</td>
<td>4</td>
<td>Introduction to Biochemical Molecules</td>
</tr>
<tr>
<td>BIOC 430-3</td>
<td>3</td>
<td>Nucleic Acids and Molecular Biology</td>
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</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>BIOL 075-4</td>
<td>(BC=4)</td>
<td>(4-1) 15 weeks</td>
</tr>
<tr>
<td><strong>Introductory Biology</strong></td>
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<tr>
<td>See “Career and Academic Preparation Courses,” page 201.</td>
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<td></td>
</tr>
<tr>
<td>BIOL 095-6</td>
<td>(BC=6)</td>
<td>(5-2) 15 weeks</td>
</tr>
<tr>
<td><strong>Preparatory Biology</strong></td>
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<tr>
<td>See “Career and Academic Preparation Courses,” page 201.</td>
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<td></td>
</tr>
<tr>
<td>BIOL 201-3</td>
<td>(BC=4)</td>
<td>(3-0-3) 15 weeks</td>
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<tr>
<td><strong>Concepts in Biology</strong></td>
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<tr>
<td>BIOL 209-3</td>
<td>(BC=3)</td>
<td>(3-0-0) 15 weeks</td>
</tr>
<tr>
<td><strong>Towards a Sustainable Society</strong></td>
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<tr>
<td>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</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Duration</th>
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<tbody>
<tr>
<td>BIOL 217-3</td>
<td>(BC=4)</td>
<td>(3-3) 15 weeks</td>
</tr>
<tr>
<td><strong>Introduction to Cell Biology</strong></td>
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<tr>
<td>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 &amp; Chem 30 Note: BIOL 217 and 218 can be taken in either order.</td>
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<tr>
<td>BIOL 218-3</td>
<td>(BC=4)</td>
<td>(3-3) 15 weeks</td>
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<tr>
<td><strong>Organisms in their Environment</strong></td>
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<tr>
<td>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 or 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.</td>
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<tr>
<td>BIOL 317-3</td>
<td>(BC=4)</td>
<td>(3-3) 15 weeks</td>
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<tr>
<td><strong>Molecular Genetics and Heredity</strong></td>
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<tr>
<td>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</td>
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<tr>
<td>BIOL 318-3</td>
<td>(BC=4)</td>
<td>(3-3) 15 weeks</td>
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<tr>
<td><strong>Principles of Ecology</strong></td>
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<tr>
<td>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</td>
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<tr>
<td>BIOL 399-1.5</td>
<td>(BC=2)</td>
<td>(0-1.5) 15 weeks</td>
</tr>
<tr>
<td><strong>Biology Research Opportunity Program</strong></td>
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<tr>
<td>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.</td>
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</table>

**Botany**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Duration</th>
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<tbody>
<tr>
<td>BOTA 310-3</td>
<td>(BC=4)</td>
<td>(3-3) 15 weeks</td>
</tr>
<tr>
<td><strong>The Plant Kingdom - Vascular Plants</strong></td>
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<tr>
<td>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</td>
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</tbody>
</table>
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

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, communication, 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
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  
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.

GNED 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.

GNED 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.

GNED 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 of 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
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.

Chem 075-4 (BC=4) (4-1S-3) 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) 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 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) (3-15-3) 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) (3-0-3) 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: BSc. 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, titrimitry, 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)  
(3-15-3) 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)  
(3-15-3) 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  
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 Timetetable 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 270-3 (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 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.

COMM 272-3 (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 273-3 (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 275-3 (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 276-3 (BC=3)  (3-0) 15 weeks
Communication 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 277-3 (BC=3)  (3-0) 15 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 278-3 (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 279-3 (BC=3)  (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 360-3 (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 361-3 (BC=3)  (3-0) 15 weeks
Communicating Through Speech and Writing
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 \(\text{BC}=3\)
\(3-0\) 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 \(\text{BC}=1\)
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 \(\text{BC}=1\)
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 \(\text{BC}=1\)
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 \(\text{BC}=1\)
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 \(\text{BC}=4\)
(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.
Note: 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: 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 090-4 \(\text{BC}=4\)*
(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.
Note: Any student considering entering Computer Systems Technology should enrol in this course and CMPT 090 if necessary prerequisites are missing.
Prerequisites: CMPT 083/CTS INF 2050
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 092-1 \(\text{BC}=1\)
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 \(\text{BC}=3\)
(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.
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*
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 Science*

**CMPT 351-3 (BC=4)**
(3-1) 15 weeks
*Formal Systems and Logic in Computing Science*
Prerequisite: CMPT 214
Co-requisite: CMPT 215

**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 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.

ELCC 201-3  (BC=3)  
(3-0) 15 weeks  
Program Planning 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. 

ELCC 206-3  (BC=3)  
(3-0) 15 weeks  
Child Development & Exceptionalities  
Physical, cognitive, moral, social, medical, and 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 exceptionality.

ELCC 210-4  (BC=4)  
(200 hours) Includes 15 hours seminar  
Practicum I  
Practicum I  
Note: These courses can be taken in any sequence.

ELCC 212-3  (BC=3)  
(3-0) 15 weeks  
Program Planning II  
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 III  
Note: These courses can be taken in any sequence.
**COURSE DESCRIPTIONS**

**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 310.  
*Note:* May be eligible for challenge.

**ELCC 311-3** (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 312-3** (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 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 department.

**ELCC 317-3** (BC=3)  
(3-0) 15 weeks  
*Program Planning IV*  
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.
ECON 101-3 (BC=3)  
**Introduction to Business Macroeconomics**

ECON 201-3 (BC=3)  
**Introduction to Microeconomics**

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

ECON 202-3 (BC=3)  
**Introduction to Macroeconomics**

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

ECON 331-3 (BC=3)  
**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)  
**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)  
**Money and Banking**

ECON 355-3 (BC=3)  
**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)  
**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.

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 focusing 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 423-3  (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 about 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 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.
### COURSE DESCRIPTIONS

#### EDUC 251-3 (BC=3)
**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)
**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)
**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)
**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)
**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)
**History & Trends in Exceptionalities**
This course examines definitions, classification schemes, measurement, 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)
**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 156-3 (BC=3)
**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.
Corequisite: EET 120

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 \( (3-0-1) \) 15 weeks \( (BC=3) \)
**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 200
Corequisites: EET 230

EET 215-2 \( (2-0-2) \) 15 weeks \( (BC=2) \)
**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 \( (4-0-1) \) 15 weeks \( (BC=4) \)
**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, control valve specification and sizing.
Prerequisites: GET 115 and EET 110
Corequisites: EET 205

EET 225-3 \( (3-0-1) \) 15 weeks \( (BC=3) \)
**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 \( (3-0-1) \) 15 weeks \( (BC=3) \)
**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 \( (3-0-1) \) 15 weeks \( (BC=3) \)
**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 \( (2-0-2) \) 15 weeks \( (BC=3) \)
**Forensic Engineering**
Employ scientific and engineering investigation methods and tools to assess potential sources, 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 \( (3-0) \) 15 weeks \( (BC=3) \)
**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 247-3 \( (3-1) \) 15 weeks \( (BC=3) \)
**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 \( (1-0-0) \) 15 weeks \( (BC=1) \)
**EET Capstone Project I**
Perform preliminary research and prepare a proposal for an Electrical Engineering Technology project to be completed in EET 201.
Prerequisites: Completion of all first year courses or permission of the department.
Not eligible for Prior Learning and Recognition

EET 251-3 \( (3-0-0) \) 15 weeks \( (BC=3) \)
**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 \( (3-0-1.5) \) 15 weeks \( (BC=3) \)
**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 Statics
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
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)
(3-15-3/2)
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

ENGL 050-5 (BC=5)
Check Course Timetable for availability.
Note: Not all courses listed may be offered.

ENGL 090-5 (BC=5)
Courses

ENGL 095-5 (BC=5)
Courses

ENGL 170-3 (BC=3)
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 330-3  
(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  
(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  
(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  
(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, Hobey, Wyatt, Surrey, Sidney, Spenser, Marlow, Drayton, Shakespeare, and others.  
Prerequisite: 6 credits of 200 Level English

ENGL 331-3  
(3-0) 15 weeks  
Later English Renaissance  
Prose and poetry from approximately 1600-1650 are studied. Poetry includes works by Donne, Herbert, Vaughan, 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  
(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  
(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  
(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  
(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  
(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  
(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  
(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  
(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  
(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  
(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
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 not been published. 
Prerequisite: 6 credits of 200 Level English

ENGL 376-3  
(BC=6)
(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
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

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
Although the specific topic will vary from year to year, this course will examine the conjunction of literature, culture, and social issues related to course material. 
Prerequisite: 6 credits of 200 Level English

ENGL 389-3  
(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

ENGL 387-3  
(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.
Family Studies

ENGL 399-3 (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

Financial Services

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

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 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.

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 281-3 (BC=3)  
(8-0) 500 hours over 16 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 (LLOP) 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.

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. Prerequisite: FREN 101 or equivalent.

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 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.
COURSE DESCRIPTIONS

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.

GET 126-2  (BC=2)  
(2-0-2) 15 weeks  
Microcontroller Applications II  
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 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  

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. Pre-requisite: 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 trans-nationalism, 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/3.5 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, 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.
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)  
**Europe in 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. Students with credit in HIST 301 cannot take this course for credit.

HIST 311-6  (BC=6)  
**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)  
**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: the rise of the modern state, economic and political development, the two World Wars and the Great Depression. Recommended preparation: HIST 208.

HIST 315-3  (BC=3)  
**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)  
**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)  
**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)  
**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 astronlmy, Isaac Newton’s religion beliefs, Darwinian Evolution, Creationism, the Big Bang, the human soul, and extraterrestrial inspired religions.

HIST 327-3  (BC=3)  
**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)  
**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)  
**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)  
**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)  
**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 351-3  (BC=3)  
**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 361  (BC=3)  
**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)  
**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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 372-3</td>
<td>The Prairie West Since 1870</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HIST 373-3</td>
<td>Canadian History to 1867</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HIST 377-3</td>
<td>20th Century Canada</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HIST 379-3</td>
<td>The First Nations and Canada</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 202-4</td>
<td>Accounting for Non-financial Managers</td>
<td>(BC=4)</td>
<td>(4-0) 15 weeks</td>
<td>Introductory hospitality financial accounting including the basic structure of accounting, the accounting information system, and generally accepted accounting principles.</td>
</tr>
<tr>
<td>HOSP 203-3</td>
<td>Front Office Procedures</td>
<td>(BC=3)</td>
<td>(3-1) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 204-2</td>
<td>Guest Room Management</td>
<td>(BC=2)</td>
<td>(1.5-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 205-1</td>
<td>Security and Emergency Management</td>
<td>(BC=1)</td>
<td>(1-0) 15 weeks</td>
<td>Current security issues related to the hospitality industry including procedures relating to physical security, emergency management and overall protection of guests and asset protection.</td>
</tr>
<tr>
<td>HOSP 206-3</td>
<td>Hospitality Marketing</td>
<td>(BC=3)</td>
<td>(3-0) 15 Weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 208-3</td>
<td>Hospitality Sales and Advertising</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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</td>
</tr>
<tr>
<td>HOSP 213-*</td>
<td>Computers</td>
<td>(BC=3)</td>
<td>(3-1.5) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 214-3</td>
<td>Food, Beverage and Labor Cost Controls</td>
<td>(BC=3)</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 215-2</td>
<td>Food Safety and Sanitation Management</td>
<td>(BC=2)</td>
<td>(1.5-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 220-2</td>
<td>Basic Food Preparation</td>
<td>(BC=3)</td>
<td>(1-3) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>HOSP 221-2</td>
<td>Basic Dining Room Service</td>
<td>(BC=3)</td>
<td>(1-3) 15 weeks</td>
<td>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.</td>
</tr>
</tbody>
</table>
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 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  
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 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

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)

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 date networks, security issues, design, configuration, troubleshooting of a LAN-based VoIP network system.  
Co-requisite: ITEC 124
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Duration</th>
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<tbody>
<tr>
<td>ITEC 128-2</td>
<td>(BC=2) Wide Area Networks</td>
<td>(4-0)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Topics related to wide area networking (WAN)</td>
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<td></td>
<td>including telecommunication infrastructures,</td>
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<td></td>
<td>frame relay, ISDN, xDSL, and international</td>
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<td></td>
<td>and emerging WAN technologies.</td>
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<td>Prerequisite: ITEC 124</td>
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<tr>
<td>ITEC 130-2</td>
<td>(BC=2) Security I</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<td>Network security issues, principles, and</td>
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<td>applications. Topics include threat analysis,</td>
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<td></td>
<td>security principles and techniques, user/</td>
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<td>system authentication, common data encryption</td>
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<td>techniques, secure network topologies, remote</td>
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<td>access security, packet analysis, security</td>
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<td>audits, security reports, ethical hacking</td>
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<td>techniques, security support research, and</td>
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<td>security software review.</td>
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<td>Prerequisite: ITEC 124</td>
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<tr>
<td>ITEC 140-2</td>
<td>(BC=2) Desktop Operating Systems</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Introduction to various desktop operating</td>
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<td>systems found in today’s networked business</td>
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<td></td>
<td>environment. A practical course that provides</td>
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<td></td>
<td>students with experience installing, configuring,</td>
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<td></td>
<td>optimizing, and troubleshooting various</td>
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<td></td>
<td>operating systems. Co-requisite: ITEC 115</td>
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<tr>
<td>ITEC 145-2</td>
<td>(BC=2) Server Configuration</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Planning, configuration, and troubleshooting of</td>
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<td>server systems. Topics include hardware</td>
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<td></td>
<td>selection, active directory configuration,</td>
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<td></td>
<td>managing users/groups, domain management,</td>
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<td></td>
<td>configuring DHCP and DNS services, printing</td>
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<td>support, data backup/recovery procedures, and</td>
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<td>system diagnostic/recovery tools.</td>
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<td>Prerequisite: ITEC 140</td>
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<tr>
<td>ITEC 150-2</td>
<td>(BC=2) Structured Programming</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Software design principles and problem</td>
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<td>solving using structure programming. Topics</td>
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<td></td>
<td>include the development of algorithms, the</td>
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<td></td>
<td>representation of data, the syntax of a high</td>
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<td>level procedural programming language, basic</td>
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<td>data types and control structures. Includes</td>
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<td></td>
<td>coding, compiling, debugging and documenting</td>
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<td></td>
<td>programs.</td>
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<tr>
<td>ITEC 153-2</td>
<td>(BC=2) Visual Programming</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Introduction to developing applications for the</td>
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<td>Windows environment. Topics include</td>
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<td>graphical user interfaces, event driven</td>
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<td></td>
<td>strategies, input validation, file processing,</td>
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<td></td>
<td>database applications, and using classes.</td>
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<td>Visual Studio is currently used as the</td>
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<td></td>
<td>programming tool. Prerequisite: ITEC 150</td>
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<tr>
<td>ITEC 156-2</td>
<td>(BC=2) Object Oriented Programming</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Includes problem analysis, designing algorithms,</td>
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<td>and implementing solutions to these problems.</td>
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<td>Programming topics include object-oriented</td>
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<td>design, data types and abstraction, classes,</td>
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<td>method design, interfaces, inheritance,</td>
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<td>polymorphism, exception handling, user</td>
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<td>interances and recursion. Prerequisite:</td>
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<tr>
<td>ITEC 160-2</td>
<td>(BC=2) Web Design</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<td>Topics include web page authoring and designing</td>
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<td>designs using XHTML and Cascading Style</td>
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<td>Sheets, the design of effective Web pages</td>
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<td>including page layout, user interface design</td>
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<td>and graphic design, and using Visual Basic and</td>
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<td>ASP.Net technologies to construct dynamic web</td>
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<td>content with the goal of creating a basic</td>
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<td>e-Commerce web site.</td>
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<td>Prerequisite: ITEC 153</td>
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<tr>
<td>ITEC 163-1</td>
<td>(BC=1) Web Client</td>
<td>(3-3)</td>
<td>4 weeks</td>
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<tr>
<td></td>
<td>Introduction to client-side programming</td>
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<td></td>
<td>techniques to develop dynamic web pages. Using</td>
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<td></td>
<td>JavaScript, the student programs objects,</td>
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<td></td>
<td>manipulates arrays, handles cookies, and</td>
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<td>validates web forms. The Document Object Model</td>
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<td>(DOM) and dynamic HTML (DHTML) is used to</td>
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<td>manipulate server generated content and</td>
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<td>enhance the user experience.</td>
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<td>Prerequisite: ITEC 160</td>
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<tr>
<td>ITEC 166-1</td>
<td>(BC=1) Web Server</td>
<td>(3-3)</td>
<td>4 weeks</td>
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<tr>
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<td>Extension of the concepts developed in ITEC</td>
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<td>160. Development of server generated web pages</td>
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<td></td>
<td>and database interaction using open source</td>
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<td>tools, such as PHP for the server-side</td>
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<td>programming and MySQL for the database. Real-</td>
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<td>world projects highlighting good program</td>
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<td>design to create practical web applications.</td>
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<td>Set up and maintenance of an open source</td>
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<td></td>
<td>Apache Web server. Prerequisite: ITEC 160</td>
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<tr>
<td>ITEC 170-4</td>
<td>(BC=4) Systems Analysis and Design</td>
<td>(3-3)</td>
<td>15 weeks</td>
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<td>Tools, techniques, and methods for analyzing</td>
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<td>and designing integrated database systems that</td>
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<td>solve business problems. Data modeling and</td>
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<td>object modeling techniques implemented using</td>
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<td>relational database technology. Introduction of</td>
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<td>process modeling techniques and joint application</td>
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<td>design methodologies. Exposure to CASE tools</td>
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<td>to help in the design and documentation process.</td>
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<tr>
<td>ITEC 175-2</td>
<td>(BC=2) Object-Oriented Analysis and Design</td>
<td>(3-3)</td>
<td>7.5 weeks</td>
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<tr>
<td></td>
<td>Introduction to the analysis and design of</td>
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<td>object-oriented applications using the</td>
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<td>Unified Modeling Language (UML). Students will</td>
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<td>also construct some of the models that are</td>
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<td>developed. Prerequisite: ITEC 156, ITEC 170</td>
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<tr>
<td>ITEC 180-1</td>
<td>(BC=1) Career Skills</td>
<td>(1-0)</td>
<td>15 weeks</td>
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<tr>
<td></td>
<td>Preparation for field work experience and</td>
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<td></td>
<td>soft-skills essential for industry employment</td>
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<td></td>
<td>success. Topics include information technology</td>
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<td>sectors, emerging trends, soft-skills</td>
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<td></td>
<td>identification, continuing education strategies,</td>
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<td>portfolio development, entrepreneur resources,</td>
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<td>employment search strategies, resume design,</td>
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<td>and interview skills.</td>
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<td>ITEC 190-2</td>
<td>(BC=2) Project</td>
<td>(2-0)</td>
<td>15 weeks</td>
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<td>Independent or group projects. Completed with</td>
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<td>a supervising staff member and involving</td>
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<td>systems analysis and design, programming or</td>
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<td>networking and implementation of a solution to a</td>
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<td>user problem.</td>
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<tr>
<td>ITEC 193-4</td>
<td>(240 hours) Practicum</td>
<td>(2-0)</td>
<td>8 weeks</td>
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<td>Industry-based experience working as a member</td>
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<td>of an IT department in a development or support</td>
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<td>role. Includes reporting requirements and</td>
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<td></td>
<td>evaluation. Pre/Co-requisite: ITEC 180</td>
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</tbody>
</table>
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/programming.
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, VPs, 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
Robotic Applications
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
Professionalism
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
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  
(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  
(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  
(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  
(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 pre-requisites: Any 200 level university transfer course.

INTD 311-3  
(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  
(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  
(3-1) 15 weeks  
Contemporary Art in Process II  
INTD 321 continued. Prerequisite: INTD 321 or consent of instructor.

INTD 370-3  
(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  
(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  
(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  
(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  
(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.
## COURSE DESCRIPTIONS

### C. Physical Activity Courses

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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| KPAC 211-3  | (3-0) 15 weeks  
| (3-0) 15 weeks  
| Basketball  | Theory and practice in individual and team activities. |
| KPAC 214-3  | (3-0) 15 weeks  
| (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  | (3-0) 15 weeks  
| (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 223-1.5 | (2-1) 15 weeks  
| (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 231-3  | (3-0) 15 weeks  
| (3-0) 15 weeks  
| Badminton  | Theory and practice in service and service return, forehand and backhand strokes, and basic tactics. (Must supply own equipment.) |
| KPAC 233-1.5 | (2-1) 15 weeks  
| (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  | (3-0) 15 weeks  
| (3-0) 15 weeks  
| Tennis  | Theory and practice in service and service return, forehand and backhand strokes, and basic tactics. (Must supply own equipment.) |
| KPAC 240-1.5 | (2-1) 15 weeks  
| (2-1) 15 weeks  
| Baseball/Fastball  | Theory and practice in individual and team activities. |
| KPAC 245-3  | (3-0) 15 weeks  
| (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) 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) 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) 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) 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) 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
**COURSE DESCRIPTIONS**

**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.

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**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**

**MATH 075-5** *(BC=5)*
**(5-0) 15 weeks**
**Introductory Algebra**

**MATH 085-5** *(BC=5)*
**(5-0) 15 weeks**
**Intermediate Algebra**

**MATH 096-5** *(BC=5)*
**(4-2) 15 weeks**
**Precalculus: Algebra and Trigonometry**

**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
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
Prerequisite: Math 30-1 and 31
Note: Designed for Engineering students.

MATH 213-3 (BC=5)
(4-2) 15 weeks
Calculus II
Prerequisites: MATH 212.
Note: Designed for Engineering students.

MATH 221-3 (BC=3)
(3-0) 15 weeks
Linear Algebra I
Prerequisite: Math 30-1.

MATH 223-3 (BC=3)
(3-0-1) 15 weeks
Applied Linear Algebra
Prerequisite: Math 212
Note: Designed for Engineering Students

MATH 230-3 (BC=3)
(3-0) 15 weeks
Mathematics: Ideas and Applications
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
Prerequisites: Math 30-1.

MATH 260-3 (BC=3)
(3-0) 15 weeks
Higher Arithmetic
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
Prerequisite: MATH 204 or equivalent.

MATH 303-3 (BC=4)
(4-0) 15 weeks
Intermediate Calculus II
Prerequisite: MATH 302.

MATH 313-3 (BC=3)
(3-1.5-0) 15 weeks
Differential Equation
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
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.
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**Microbiology**

**MICR 365-3**

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**

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**

Motion Picture Fundamentals II

Further development of knowledge in aspects of live action motion picture production.

**MPA 303-3**

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**

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.
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.

Motion Picture Technology
Knowledge and maintenance of 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.

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.

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.

Motion Picture Production II
Further development in cinematography, camera operation, lighting, editing, sound and production management.

Motion Picture Acting I
Emphasis is on developing a confident poise effective vocal and physical character traits. Practice performance on camera using other film personnel. Opportunities to set directions and the roles and functions of knowledge of terminology, set etiquette, camera operation, lighting, editing, sound, motion picture acting, and production management.

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.

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.

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.

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.

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.

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)

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.

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, etd.
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, chord building, and cadence recognition and sight-singing.
Prerequisite: MUSI 194 or consent of Department Chair.

MUSI 197-2 (BC=2)
(2-0) 15 weeks
Introductory Aural Skills I
Skills and knowledge gained in MUSI 197 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 studies.
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**  
(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**  
(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**  
(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**  
(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**  
(3-0) 15 weeks  
**Comprehensive Music Theory I**  
Music fundamentals 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**  
(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**  
(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**  
(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**  
(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**  
(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**  
(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**  
(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**  
(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**  
(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 312-5**  
(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  
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 363-4  (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 397-4  (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 instrument of study and upon approval of the proposed placement.  
Co-requisite: MUSP 460  

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)  
(1-2) 30 weeks  
Contemporary Aural Skills IV  
The aural study of materials in MUSI 357.  
Prerequisite or Co-requisite: MUSI 357  

MUSP 361-3 (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  

MUSP 362-3 (BC=3)  
(0-3) 15 weeks  
Contemporary Aural Skills II  
Second term study of the MUSI 361 course. Emphasis is on extended compositions and workstation/computer use.  
Prerequisite: MUSI 361.  

MUSP 363-4 (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.  

MUSP 397-4 (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: MUSP 361/362  

MUSP 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.  

MUSP 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 Practice III
Within the context of primary health care, the focus shifts to restoration, rehabilitation and support of clients experiencing more acute variances in health across the life span. Practice will occur primarily in primary level acute care centres and 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 381-7 (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 384-7 (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 284, 285
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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</thead>
</table>

**NURS 394-5  (BC=5)**
(6-45-3) 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.  

<table>
<thead>
<tr>
<th>NURS 395-7  (BC=7)</th>
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<tbody>
<tr>
<td>(3-0-28) 7 weeks</td>
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</tbody>
</table>
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.  

<table>
<thead>
<tr>
<th>NURS 301-3  (BC=3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3-0) 15 weeks</td>
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</tbody>
</table>
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  

<table>
<thead>
<tr>
<th>NURS 304-3  (BC=3)</th>
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<tbody>
<tr>
<td>(3-0) 15 weeks</td>
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</table>
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.  

<table>
<thead>
<tr>
<th>NURS 461-7  (BC=7)</th>
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<tbody>
<tr>
<td>(0-15-34c) 10 weeks</td>
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</tbody>
</table>
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.  

<table>
<thead>
<tr>
<th>NURS 490-5  (BC=5)</th>
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<tbody>
<tr>
<td>(6-65-3) 7 weeks</td>
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</table>
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  

<table>
<thead>
<tr>
<th>NURS 491-7  (BC=7)</th>
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<tbody>
<tr>
<td>(3-2-26) 7 weeks</td>
</tr>
</tbody>
</table>
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  

<table>
<thead>
<tr>
<th>NURS 494-3  (BC=3)</th>
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<tbody>
<tr>
<td>(6-0-3) 4 weeks</td>
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</table>
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.  

<table>
<thead>
<tr>
<th>NURS 495-9  (BC=9)</th>
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<tbody>
<tr>
<td>(1-0-34) 10 weeks</td>
</tr>
</tbody>
</table>
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**  

<table>
<thead>
<tr>
<th>OPTA 102-4  (BC=5)</th>
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<tbody>
<tr>
<td>(45 lecture, 45 lab)</td>
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</table>
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  

<table>
<thead>
<tr>
<th>OPTA 105-3  (BC=4)</th>
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</thead>
<tbody>
<tr>
<td>(30 lecture, 30 lab)</td>
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</tbody>
</table>
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.  

<table>
<thead>
<tr>
<th>OPTA 106-3  (BC=4)</th>
</tr>
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<tbody>
<tr>
<td>(30 lecture, 30 lab)</td>
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</tbody>
</table>
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  

<table>
<thead>
<tr>
<th>OPTA 110-2  (BC=2)</th>
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<tbody>
<tr>
<td>(30 lecture)</td>
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</tbody>
</table>
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 student 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  

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 181-3 (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  

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)  
(0-3) 15 weeks  
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)  
(0-3) 15 weeks  
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.  

PHI L 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.  

PHI L 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.  

PHI L 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.  

PHI L 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
**Philosophy**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Weeks</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 300-3</td>
<td><strong>(BC=3)</strong> Professional Ethics</td>
<td></td>
<td></td>
<td>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 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.</td>
</tr>
<tr>
<td>PHIL 301-3</td>
<td><strong>(BC=3)</strong> The Theory of Knowledge</td>
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<td></td>
<td>Epistemology is the study of the origin, nature, methods, and limits of knowledge. Topics: True, 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.</td>
</tr>
<tr>
<td>PHIL 321-3</td>
<td><strong>(BC=3)</strong> Metaphysics</td>
<td></td>
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<td>Topics may include freedom of the will, the mind-body problem, and the nature of time. The character of metaphysical reasoning.</td>
</tr>
<tr>
<td>PHIL 323-3</td>
<td><strong>(BC=3)</strong> Philosophy of Mind</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 339-3</td>
<td><strong>(BC=3)</strong> Ethics</td>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 342-3</td>
<td><strong>(BC=3)</strong> Aristotle and Hellenistic Philosophy</td>
<td></td>
<td></td>
<td>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 Pyrrhonism and the Academics.</td>
</tr>
<tr>
<td>PHIL 343-3</td>
<td><strong>(BC=3)</strong> Descartes to Kant</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 345-3</td>
<td><strong>(BC=3)</strong> Kant to Russell</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 347-3</td>
<td><strong>(BC=3)</strong> Philosophy of the Environment</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 348-3</td>
<td><strong>(BC=3)</strong> Philosophy and Women</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 350-3</td>
<td><strong>(BC=3)</strong> Philosophy of Art</td>
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<td>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.</td>
</tr>
<tr>
<td>PHIL 355-3</td>
<td><strong>(BC=3)</strong> Philosophy of the Environment</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHIL 357-3</td>
<td><strong>(BC=3)</strong> Philosophy of Religion</td>
<td></td>
<td></td>
<td>The concept of religion. Arguments for and against the existence of God. Meaning and intelligibility in religious language.</td>
</tr>
<tr>
<td>PHIL 364-3</td>
<td><strong>(BC=3)</strong> Philosophy of Science I</td>
<td></td>
<td></td>
<td>The philosophy of natural science. Hypothesis testing. The nature of causation, law, and explanation.</td>
</tr>
<tr>
<td>PHIL 365-3</td>
<td><strong>(BC=3)</strong> Philosophy of Science II</td>
<td></td>
<td></td>
<td>The debate over the possibility of objectivity in the social sciences, which began with the work of Max Weber. Positivism. Hermeneutics. Critical theory. Ethnomethodology.</td>
</tr>
</tbody>
</table>

**Course Descriptions**

At the University of Alberta, courses are categorized under various departments, including Philosophy. This page provides a list of courses offered under the Philosophy department, each with a brief description of its content and a brief overview of the topics covered. The courses are divided into different categories such as Ethics, Epistemology, Philosophy of Mind, and more. Each course is further detailed with specific credits, weeks, and an overview of the topics covered. This information is essential for students looking to understand the breadth of courses available and to plan their academic paths accordingly.

The University of Alberta offers a wide range of Philosophy courses, catering to various interests such as ethics, epistemology, metaphysics, and the philosophy of mind. Each course is designed to enhance critical thinking, analysis, and understanding of philosophical concepts. Courses range from introductory to advanced levels, allowing students to deepen their knowledge and expertise in the field.
PHIL 369-3 (BC=3)  
(3-0) 15 weeks  
Phenomenology and Existentialism  
Prerequisite:  PHIL 222 or consent of the logic.  
Prerequisite:  PHIL 222 or consent of the logic.  
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  

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)  
(4-15-2) 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)  
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)  
(3-15-3) 15 weeks  
Mechanics  
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)  
(3-15-3) 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.
COURSE DESCRIPTIONS

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
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
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.

PHYS 259-3  (BC=4)
(3-0-1) 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 258-3  (BC=3)
(3-0-0) 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  (BC=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
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.
COURSE DESCRIPTIONS

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
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 the 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

POLI 328-3 (BC=3)
(3-0) 15 weeks
Elements of Public Administration

POLI 360-6 (BC=6)
(3-0) 30 weeks
International Relations
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.

Note: 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN 227-5</td>
<td>Nursing Science II - Advanced</td>
<td>(BC=5)</td>
<td>Prerequisite: PN 218, Co-requisite: PN 225. 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.</td>
</tr>
<tr>
<td>PN 228-3</td>
<td>Growth and Development Across the Lifespan</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 217, 218, 225, 226, 227. An overview of human growth and development and normal behavioral responses through the lifespan.</td>
</tr>
<tr>
<td>PN 229-5</td>
<td>Continuing Care Practice</td>
<td>(BC=5)</td>
<td>Prerequisite: PN 217, 218, 225, 226, 227. Introduction to continuing care settings with opportunity to apply previously acquired knowledge and skills when caring for clients in these settings.</td>
</tr>
<tr>
<td>PN 231-3</td>
<td>Mental Health</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 225, 226, 227, 229. Focus is on the promotion of mental health, prevention and management of mental disorders throughout the life cycle, within various health care settings.</td>
</tr>
<tr>
<td>PN 235-5</td>
<td>Nursing Science III - Medical/Surgical Nursing</td>
<td>(BC=5)</td>
<td>Prerequisite: PN 229. 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.</td>
</tr>
<tr>
<td>PN 236-3</td>
<td>Health Education</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 229. 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.</td>
</tr>
<tr>
<td>PN 237-6</td>
<td>Acute Care Practice</td>
<td>(BC=6)</td>
<td>Prerequisite: PN 231, 235, 236. Focus is on the nursing needs of clients throughout the life cycle in acute care settings.</td>
</tr>
<tr>
<td>PN 242-3</td>
<td>Pediatric Nursing</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 237. An introduction to the needs and nursing interventions related to children. Community resources and client teaching are addressed.</td>
</tr>
<tr>
<td>PN 243-3</td>
<td>Maternity Nursing</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 237. An introduction to the needs and nursing interventions of childbearing families. Community resources and client teaching are addressed.</td>
</tr>
<tr>
<td>PN 245-3</td>
<td>Community Nursing</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 237. An introduction to the concepts, theories and practices of community health nursing and health promotion as it relates to individuals, families and groups.</td>
</tr>
<tr>
<td>PN 246-3</td>
<td>Nursing Science IV - Transition to Graduate</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 242, 243, 246. 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.</td>
</tr>
<tr>
<td>PN 248-3</td>
<td>Focus Practicum</td>
<td>(BC=3)</td>
<td>Prerequisite: PN 242, 243, 246, 247. Opportunities are provided to observe and apply nursing knowledge and skills in a variety of settings, such as mental health, maternal, and community. May include practice in a continuing care setting with a focus on leadership roles.</td>
</tr>
<tr>
<td>PN 249-4</td>
<td>Comprehensive Practicum</td>
<td>(BC=4)</td>
<td>Prerequisite: PN 247. Preceptorship experience provides the opportunity to make the transition from a student to a graduate role.</td>
</tr>
</tbody>
</table>

## Psychology

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 205-3</td>
<td>History of Psychological Thought</td>
<td>(BC=3)</td>
<td>Prerequisite: PSYC 260. The roots of psychological thought in Western culture, and the relationship between theories of human nature and changing social institution. Prerequisites: PSYC 260 &amp; PSYC 261.</td>
</tr>
<tr>
<td>PSYC 260-3</td>
<td>Basic Psychological Processes</td>
<td>(BC=3)</td>
<td>Prerequisite: PSYC 261. 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, memory. Note: This course is a prerequisite for most psychology courses and is normally followed by PSYC 261.</td>
</tr>
<tr>
<td>PSYC 261-3</td>
<td>Social and Individual Behaviour</td>
<td>(BC=3)</td>
<td>Prerequisite: PSYC 260. Note: PSYC 260/261 is a prerequisite for many courses in the Department.</td>
</tr>
<tr>
<td>PSYC 305-3</td>
<td>History of Psychological Thought</td>
<td>(BC=3)</td>
<td>Prerequisite: PSYC 260. The roots of psychological thought in Western culture, and the relationship between theories of human nature and changing social institution. Prerequisites: PSYC 260 &amp; PSYC 261.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>PSYC 312-6</td>
<td>Experimental Design and Quantitative Methods for Psychology</td>
<td>(3-2) 30 weeks</td>
<td>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</td>
</tr>
<tr>
<td>PSYC 321-3</td>
<td>Industrial &amp; Organizational Psychology</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 341-3</td>
<td>Social Psychology</td>
<td>(3-0-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 347-3</td>
<td>Psychology of Gender</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 353-3</td>
<td>Child Development</td>
<td>(3-0) 15 weeks</td>
<td>An examination of theory and research related to physical, cognitive, emotional and social development across infancy and childhood. Prerequisite: PSYC 260/261.</td>
</tr>
<tr>
<td>PSYC 355-3</td>
<td>Adolescence</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 357-3</td>
<td>Psychology of Adult Development and Aging</td>
<td>(3-0-0) 15 weeks</td>
<td>An examination of theory and research related to physical, cognitive, emotional, and social development across adulthood. Prerequisite: PSYC 260/261.</td>
</tr>
<tr>
<td>PSYC 358-3</td>
<td>Cognitive Psychology</td>
<td>(3-0-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 367-3</td>
<td>Human Sexual Behaviour</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 368-3</td>
<td>Principles of Learning</td>
<td>(3-0-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 369-3</td>
<td>Sensation and Perception</td>
<td>(3-0-0) 15 weeks</td>
<td>The psychological and physiological bases of sensory and perceptual processes, including vision, audition, taste, smell, touch, proprioception, and basic psychophysics.</td>
</tr>
<tr>
<td>PSYC 375-3</td>
<td>Brain and Behaviour</td>
<td>(3-0) 15 weeks</td>
<td>Brain function related to sensation, movement, learning, motivation, and thinking. How the brain interacts with behaviour systems. Prerequisite: Biology 30 or equivalent and PSYC 260/261. (Biology 30 prerequisite required by U of A bound students).</td>
</tr>
<tr>
<td>PSYC 377-3</td>
<td>Human Neuropsychology</td>
<td>(3-0-0) 15 weeks</td>
<td>Changes in mood, motivation, perception, attention, memory, and language as revealed by studies of structural alterations in the human brain. Prerequisite: PSYC 375.</td>
</tr>
<tr>
<td>PSYC 383-3</td>
<td>Personality</td>
<td>(3-0) 15 weeks</td>
<td>Survey course including theory and research related to the major problems in the study of personality. Prerequisite: PSYC 260/261.</td>
</tr>
<tr>
<td>PSYC 389-3</td>
<td>Abnormal Psychology</td>
<td>(3-0) 15 weeks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 391-3</td>
<td>Health Psychology</td>
<td>(3-0-0) 15 weeks</td>
<td>Examining the relationship of psychology to illness and related dysfunction, promotion and maintenance of health, and the health system. Prerequisite: PSYC 260/261.</td>
</tr>
</tbody>
</table>
### Science

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIE 050-5</td>
<td>Basic Science</td>
<td>(BC=5)</td>
<td>(5-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>


### Social Studies

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>SOST 090-5</td>
<td>Correspondence</td>
<td>(BC=5)</td>
<td>(5-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>


### Social Work

(Open to Social Work students only.)

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SOWK 201-3</td>
<td>Introduction to Social Work Methods I</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

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<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 202-3</td>
<td>Introduction to Social Work Methods II</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
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<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 204-3</td>
<td>Social Work Ethics in Practice</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 207-3</td>
<td>Social Services History, Function and</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 208-4</td>
<td>Field Work I</td>
<td>(BC=5)</td>
<td>(240 hours)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 209-4</td>
<td>Field Work II</td>
<td>(BC=5)</td>
<td>(240 hours)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 210-3</td>
<td>Social Work Practice with Groups</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 301-3</td>
<td>Social Work Practice with Individuals and</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 304-3</td>
<td>Social Work Practice with Communities</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 306-3</td>
<td>Social Work Administration</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 307-3</td>
<td>Social Policy</td>
<td>(BC=3)</td>
<td>(3-0)</td>
<td>15 weeks</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Value</th>
<th>Lecture Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 308-4</td>
<td>Field Work III</td>
<td>(BC=5)</td>
<td>(240 hours)</td>
<td></td>
</tr>
</tbody>
</table>

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

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### Course Descriptions

**SOWK 309-4** *(BC=5)*  
**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)*  
**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)*  
**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)*  
**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)*  
**Canadian Society**  
Family, religion, education, politics, and economics. Social stratification and social inequality.  
Prerequisite: SOCI 260

**SOCI 301-3** *(BC=3)*  
**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)*  
**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)*  
**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)*  
**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)*  
**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)*  
**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 SOC 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)*  
**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)*  
**Criminology**  
Prerequisite: SOCI 260 or consent of the Department.
COURSE DESCRIPTIONS

SOCI 327-3 (BC=3) (3-0) 15 weeks
Criminal Justice and Crime Control
Prerequisite: SOCI 260 or consent of the Department.

SOCI 332-3 (BC=3) (3-0) 15 weeks
The Development of Sociology I
Prerequisite: SOCI 260 or consent of the Department.

SOCI 333-3 (BC=3) (3-0) 15 weeks
The Development of Sociology II
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
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  
Prerequisite: Math 30-1

STAT 251-3  
(BC=4)  
(3-0-2) 15 weeks  
Introduction to Applied Statistics I  
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 instruction towards a working knowledge of the technical aspects of entertainment production. The work may be a new application of practica skills, or be an opportunity to redevelop and strengthen current skills.  
Prerequisite: THTR 105 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 practica 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. Examining 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.  
Prerequisite: THTR 176

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.  
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.  
Prerequisite: THTR 285

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**  
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 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 297-3</td>
<td>BC=3</td>
<td>64</td>
<td>Intensive Series III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>THTR 100-2</td>
<td>BC=2</td>
<td>33</td>
<td>Theatre Research &amp; Development I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>An introduction for the theatre artist into the practical and theoretical approaches to play analysis, theatrical forms and styles.</td>
</tr>
<tr>
<td>THTR 101-2</td>
<td>BC=2</td>
<td>30</td>
<td>Theatre Research &amp; Development II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Continued practical and theoretical investigation of plays, theatrical forms and styles. Prerequisite: THTR 100</td>
</tr>
<tr>
<td>THTR 110-1</td>
<td>BC=1</td>
<td>11</td>
<td>The Business of Theatre I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Introduction to the business of theatre as it pertains to the individual theatre artist.</td>
</tr>
<tr>
<td>THTR 111-1</td>
<td>BC=1</td>
<td>10</td>
<td>The Business of Theatre II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Continued investigation of the business of theatre as it pertains to the individual theatre artist and theatre collaborators. Prerequisite: THTR 110</td>
</tr>
<tr>
<td>THTR 120-3</td>
<td>BC=3</td>
<td>44</td>
<td>The Expressive Body I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>An introduction to physical techniques and practices as it relates to theatre acting and creation work.</td>
</tr>
<tr>
<td>THTR 121-3</td>
<td>BC=3</td>
<td>40</td>
<td>The Expressive Body II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Continued development of physical techniques and practices as it relates to theatre acting and creation work. Prerequisite: THTR 120</td>
</tr>
<tr>
<td>THTR 130-3</td>
<td>BC=3</td>
<td>44</td>
<td>The Expressive Voice I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Introduction to the techniques and practices of voice training as it relates to theatre acting, singing and creation work.</td>
</tr>
<tr>
<td>THTR 131-3</td>
<td>BC=3</td>
<td>40</td>
<td>The Expressive Voice II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Continued development of voice techniques and practices as it relates to theatre acting, singing and creation work. Prerequisite: THTR 130</td>
</tr>
<tr>
<td>THTR 140-3</td>
<td>BC=3</td>
<td>30/36</td>
<td>Acting I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>An introduction to improvisation as it relates to the process of acting and creating for the theatre.</td>
</tr>
<tr>
<td>THTR 141-3</td>
<td>BC=3</td>
<td>30/36</td>
<td>Acting II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Continued exploration of the acting and creation process as it relates to theatre text. Prerequisite: THTR 140</td>
</tr>
<tr>
<td>THTR 150-2</td>
<td>BC=2</td>
<td>90</td>
<td>Theatre Artist Studio I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>THTR 151-3</td>
<td>BC=3</td>
<td>135</td>
<td>Theatre Artist Studio II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>THTR 160-3</td>
<td>BC=3</td>
<td>40</td>
<td>Introduction to Devising Theatre</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>An introduction to concepts and alternative approaches for devising original theatre pieces. Prerequisite: ENGL 219 and THTR 140</td>
</tr>
<tr>
<td>THTR 200-1</td>
<td>BC=1</td>
<td>18</td>
<td>Theatre Research and Development III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced practical and theoretical investigation of theatre text, form and styles. Prerequisite: THTR 101</td>
</tr>
<tr>
<td>THTR 210-1</td>
<td>BC=1</td>
<td>9</td>
<td>The Business of Theatre III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Further investigation of the business of theatre as it pertains to the individual theatre artist and the global theatre industry. Prerequisite: THTR 111</td>
</tr>
<tr>
<td>THTR 220-3</td>
<td>BC=3</td>
<td>36</td>
<td>The Expressive Body III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced application of physical expression techniques and practices as it relates to theatre acting and creation work. Prerequisite: THTR 121</td>
</tr>
<tr>
<td>THTR 230-3</td>
<td>BC=3</td>
<td>36</td>
<td>Acting III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced application of the acting and creation process as it relates to theatre styles. Prerequisite: THTR 141</td>
</tr>
<tr>
<td>THTR 250-3</td>
<td>BC=3</td>
<td>135</td>
<td>Theatre Artist Studio III</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>THTR 251-5</td>
<td>BC=5</td>
<td>225</td>
<td>Theatre Artist Studio IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
</tbody>
</table>
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.

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

Zoology

Note: Not all courses listed may be offered. Check Course Timetable for availability.
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)  
(3-0) 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.

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 11 level  
Prerequisite or Co-requisite: MATH 075, Math 10 Prep

**CHEM 095-6**  
(BC=6)  
(5-0-2) 15 weeks  
**Preparatory Chemistry**  
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.

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English  
**ENGL 050-5**  
(BC=5)  
(4-25) 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.

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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 & Pre Trades
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.
COURSE DESCRIPTIONS

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  
Theoretical emphasis on 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 tile making.

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  

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.
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 Superieure de Commerce International Du Pas-De Calais (ESCIP)  
  Saint Omer, France  
  - Exchange Agreement

- Hokkaido Asai Gakuen University  
  Hokkaido, Japan  
  - Exchange Agreement
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