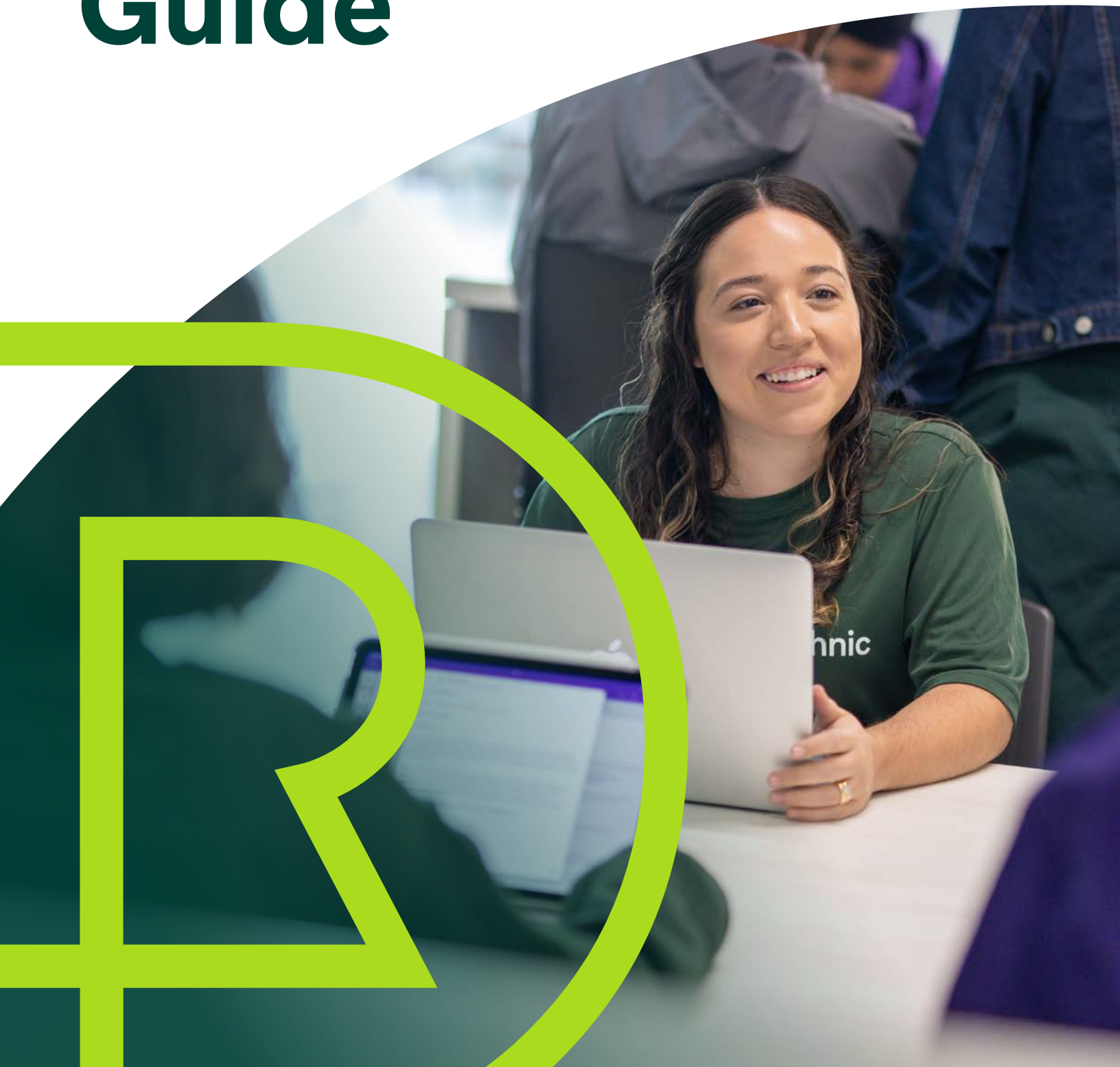


# Course Guide



# Contents

<b>Course Descriptions</b>	<b>3</b>
<b>Academic Schedule</b>	<b>4</b>
Accounting	6
Acting	6
Administrative Professional	6
Anthropology	7
Art	8
Arts and Animation	10
Animation and Visual Effects	10
Astronomy	11
Biochemistry	11
Biology	11
Business	13
Business Administration	15
Chemistry	17
Classics	17
Communications	17
Computer Programming	18
Computing Science	19
Creation	19
Culinary Arts	20
Dance	20
Drama	20
Early Childhood Education Leadership Development Certificate	20
Early Learning and Child Care	21
Earth and Atmospheric Sciences	22
Economics	22
Education	23
Educational Assistant	25
Engineering	25
English	26
Entrepreneurship and Small Business	27
Family Studies	28
Film	28
Film, Theatre and Live Entertainment	28
Finance	28
French	29
General Engineering Technology	29
Health Care Aide	30
Health Sciences	30
History	30
Human Resources Management Graduate Certificate	32
Indigenous Studies	32

Instrumentation and Automation Engineering Technology	32
Instrumentation Engineering Technology	33
Interdisciplinary Studies	33
Justice Studies	34
Kinesiology and Sport Studies	35
Legal Assistant	37
Licensed Practical Nurse to Bachelor of Science Nursing Transition Program	38
Machine Learning Analyst	38
Management	40
Marketing	41
Mathematics	41
Mechanical Engineering Technology	42
Medical Device Reprocessing	43
Medical Lab Assistant	43
Motion Picture Arts	43
Multidisciplinary Studies	44
Music	44
Nursing	44
Occupational and Physical Therapist Assistant	46
Pharmacy Technician	47
Philosophy	48
Physical Education and Sport Studies	49
Physics	49
Physiology	50
Political Science	50
Practical Nurse	50
Production	51
Psychology	53
Science	55
Social Work	55
Sociology	56
Statistics	57
Academic Upgrading Courses	58

## LEARNING PHILOSOPHY

Our commitment to learners and learning is at the heart of Red Deer Polytechnic and this is reflected in our values of accountability, inclusiveness, exploration, excellence, integrity and community.

We believe in fostering intellectually rigorous, professionally relevant, and dynamic learning environments of inquiry, exploration, application and creativity. We ensure accessibility to multiple pathways of formal and informal learning through active engagement, facilitated learning processes, and scholarly excellence.

We value learning because it empowers our learners to be highly productive in the work force and within our communities. We honour the intrinsic value of learning in supporting self development, growth and fulfillment in the individual learner. We promote positive lifelong learning habits and attitudes that embrace local, national, and global experiences, issues and perspectives.

## 2024-2025 COURSE GUIDE

The Web version is the official Academic Calendar of Red Deer Polytechnic. The Calendar and timetable set forth the intention of the Polytechnic, at the time of publication, with respect to all matters contained therein. The Polytechnic reserves the right, at any time, to make whatever changes are necessary, including the cancellation of particular courses, in order to serve the best interests of the Polytechnic, or because of circumstances or occurrences beyond the Polytechnic's control. Red Deer Polytechnic expressly denies responsibility or liability to any person or persons who may suffer loss or who may be otherwise adversely affected by such.

# Course Descriptions

This Course Guide lists courses normally offered at Red Deer Polytechnic. Some courses are not offered every year. Refer to 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, course weight, the title of the course and a brief description.

Example:

<b>CHEM 1211-3</b> <b>(45-15S-45)</b> <b>General Chemistry I</b>	<b>(BC=4)</b>
<b>CHEM</b>	course acronym
<b>1211</b>	course number
<b>3</b>	course credit weight
<b>(BC=4)</b>	the number of billing credits
<b>(45-15S-45)</b>	the instructor/student total contact hours of 45 hours lecture, 15 hours seminar, and 45 hours lab
<b>General Chemistry I</b>	the title of the course

## Calculation of Instructor / Student Contact Hours

The numbers in brackets, following the course title and course number, show the total number of contact hours for the instructor and student.

(45-0)	45 hours of lecture contact in the academic term
(45-0-45)	45 hours of lecture and 45 hours of lab contact in the academic term
(0-45)	45 hours of lab contact in the academic term.
(45-15S-45)	45 hours of lecture, 15 hours of seminar, and 45 hours of lab contact in the academic term.
(45/2)	45 hours of lecture delivered on alternate weeks in the academic term scheduled. Refer to the Timetable for details.

NOTE: ALL NEW courses have been assigned a four-digit course number (for example: HRM 1281). The intent is to have ALL courses updated to a four-digit course number in the 2024 – 2025 Course Guide.

## 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.

## 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 class are directed by the instructor OR
  - (ii) context based learning.

## Work Integrated Learning

Work-integrated learning is a form of curricular experiential education that formally integrates a student's academic studies with quality experiences within a workplace or practice setting. WIL experiences include an engaged partnership of at least: an academic institution, a host organization, and a student. WIL can occur at the course or program level and includes the development of student learning objectives and outcomes related to employability, agency, knowledge and skill mobility and life-long learning. (Note: approved by [CEWIL](#) Canada membership on November 3, 2021)

## Work Integrated Learning Opportunities

**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.

**Applied Practicum** – a practicum that is part of the requirement of an Applied Degree. The practicum consists of two 15-week terms of applied work. Applied Practicums may include paid work, projects and other assignments.

**Work Experience** – paid work experience that is supervised by the employer and assigned a grade by the instructor.

## Course Duration

Course duration may vary, see the Timetable for length of courses. A Fall or Winter term usually lasts 15 weeks, including the exam period. A Spring or Summer term usually lasts eight (8) weeks, including the exam period.

Some courses extend over two (2) terms. includes two exam periods, one at the end of each term. They are called full year courses. See the Timetable for details.

## Prerequisites, Corequisites and Antirequisites

Courses listed as prerequisites must be completed before you start the course in question. For example: BIOL 297 lists Biology 30 or equivalent as prerequisite. This means you must complete Biology 30 or equivalent before you can take BIOL 297. Courses listed as Corequisites must be taken at the same time as the course in question. Antirequisites are courses that have significant overlap. Credit will not be granted for both courses.

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

## Restricted Courses

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

## Reserved Courses

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

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

# Academic Schedule 2024

July						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

- 1 Canada Day – Polytechnic closed. Sixty-first Polytechnic Year begins.
- 2 First day of classes for Summer term. Last day to apply for Supplemental Exams for Spring term.  
**Tuition fees for Summer term due. Registration will be cancelled if tuition is not paid.**
- 4 Last day to apply for Summer term.
- 5 Supplemental Exams for Spring term written.
- 8 Last day to register, add or drop Summer term courses.  
**Last day for tuition refund.**
- 26 Mid-term feedback for Summer term.

August						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- 1 First day to apply for Spring 2025.
- 5 Heritage Day – Polytechnic closed.
- 14 Last day of classes for Summer term.  
**Last day to withdraw from Summer term courses and receive a WD.**
- 20 First day of Final Exams for Summer term.
- 22 Last day of Final Exams for Summer term.
- 26 Deferred Exams for Summer term written.
- 27 **Tuition fees for Fall Term and full year courses due. Registration will be cancelled if tuition is not paid.**
- 28 Last day of course waitlist for Fall term.
- 29 Last day for submission of final grades for Summer term courses.
- 30 Final grades available for Summer term courses.

September						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- 1 Labour Day – Polytechnic closed. Last day to apply for Fall term.
- 3 New Student Orientation.
- 4 First day of classes for Fall term.
- 9 Last day to apply for Supplemental Exams for Summer term.
- 12 Last day to register, add or drop Fall term or Full year courses.  
**Last day for tuition refund.** Supplemental Exams for Summer term written.
- 30 National Day of Truth and Reconciliation – Polytechnic closed.

October						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- 1 First day to apply for Fall term 2025. Emergency Response Day.
- 14 Thanksgiving Day – Polytechnic closed.
- 15-18 Reading Break. No credit classes.
- 21 Credit classes resume.
- 25 Mid-term feedback for Fall term.

November						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- 8 Final Exam schedule posted.
- 11 Remembrance Day – Polytechnic closed.

December						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 9 Last day of classes for Fall term.  
**Last day to withdraw from Fall term courses and receive a WD.**
- 13 First day of Final Exams for Fall term courses. Last day of course waitlist for Winter term.
- 18 Last day of Final Exams for Fall Term courses.
- 19 Deferred Exams written.
- 20 Last day for submission of final grades for Fall term courses. Final grades available.
- 23 Final grades available.
- 24 Polytechnic closed at noon.
- 25-31 Polytechnic closed.

# Academic Schedule 2025

January						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- 1 New Year's Day – Polytechnic closed.
- 2 No credit classes – Polytechnic open.
- 3 Last day to apply for Winter term.
- 6 New Student Orientation for Winter term.
- 7 First day of classes for Winter term.  
**Tuition Fees for Winter term due. Registration will be cancelled if tuition is not paid.**  
Mid-term feedback for Full year courses.
- 8 Last day to apply for Supplemental Exams for Fall term.
- 11 Supplemental Exams for Fall term written.
- 14 Last day to register, add or drop Winter term courses.  
**Last day for tuition refund.**

February						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

- 17 Family Day – Polytechnic closed.
- 18-21 Reading break. No credit classes.
- 24 Credit classes resume.
- 27 Mid-term feedback for Winter term.

March						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- 4 Emergency Response Day.
- 14 Final Exam schedule posted.

## July 2025

- 2 First day of classes for Summer term.  
Last day to apply for Supplemental Exams for Spring term.
- 5 Supplemental Exams for Spring term written.
- 30 Mid-term feedback for Summer term.

April						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

- 1 First day to apply for Winter 2026.
- 10 Last day of classes for Full year and Winter term courses.  
**Last day to withdraw from Full year and Winter term courses and receive a WD.**
- 15 First day of Final Exams.
- 18 Good Friday – Polytechnic closed.
- 21 Last day of Final Exams.
- 23 Deferred Exams written.
- 24 Last day of the course waitlist for Spring term.
- 28 Last day for submission of final grades for Winter term and Full year courses.
- 29 Final grades for Winter term available.  
Last day to apply for Spring term.
- 30 **Tuition fee deposit deadline for Fall 2025.**

May						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- 1 First day of classes for Spring term.  
**Tuition fees for Spring term due. Registration will be cancelled if tuition is not paid.**
- 6 Continuing Student Registration.  
Last Day to apply for Supplemental Exams for Winter term.
- 8 Last day to register, add or drop Spring term courses.  
**Last day for tuition refund.**
- 9 Supplemental Exams for Winter term written.
- 13 Final Exam Schedule posted.
- 19 Victoria Day – Polytechnic closed.
- 20 New Student Registration.
- 23 Mid-term feedback for Spring term.

June						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- 6 Convocation.
- 13 Last day of classes for Spring term courses.  
**Last day to withdraw from Spring term courses and receive a WD.**
- 18 First day of Final Exams for Spring term courses.
- 20 Last day of Final Exams for Spring term courses.
- 21-22 Annual Power Shutdown.
- 24 Deferred Exams written for Spring term.
- 26 Last day for submission of final grades.
- 27 Final grades available.
- 30 Polytechnic year ends.



## Academic Upgrading Courses

See page 58.

## Accounting

**ACCT 1001-3** (BC=3)  
(45-0-0) 15 weeks

### **Introductory Financial Accounting I**

Introduce accounting theory and vocabulary, as well as how to create and interpret financial statements to demonstrate their benefit to both internal and external stakeholders.

**Antirequisite:** ACCT 1602

**Equivalents:** ACCT 1001 and ACCT 2001

**ACCT 1602** (BC=5)  
(75-0) 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 ACCT 1001, ACCT 2001 and ACCT 1602.**

**ACCT 2001-3** (BC=3)  
(45-0-0) 15 weeks

### **Introductory Financial Accounting II**

Employ fundamental principles and concepts of accounting theory to examine increasingly complex financial transactions and financial statements. Interpret financial information using data analytics. Communicate financial results to external stakeholders.

**Prerequisite:** ACCT 1001 or by consent of the Associate Dean

**Antirequisites:** ACCT 1001 and ACCT 2001

**Equivalent:** ACCT 1602

**ACCT 2010-3** (BC=3)  
(45-0-0) 15 weeks

### **Introductory Management Accounting**

Apply management accounting tools to inform proper decision making with a focus on expense behavior.

**Prerequisite:** ACCT 1001 or ACCT 102 or ACCT 202 or by consent of the Associate Dean

**Antirequisite:** ACCT 1104/2204

**Equivalent:** ACCT 1104/2204

**ACCT 2204-3** (BC=3)  
(45-0-0) 15 weeks

### **Intermediate Management Accounting**

Apply management accounting tools, including capital budgeting, to inform decision-making in more complex environments.

**Prerequisite:** ACCT 2010 or by consent of the Associate Dean

**ACCT 2305-3** (BC=3)  
(45-0-0) 15 weeks

### **Tax I**

Discuss basic Canadian tax laws affecting individuals and corporations. Apply Canadian Income Tax Act rules to the computation of income tax payable for individuals and corporations.

**Prerequisites:** ACCT 1001 and FINS 1150 or by consent of the Associate Dean

**Antirequisite:** BADM 285

**Equivalent:** BADM 285

**ACCT 3209-3** (BC=4)  
(45-0-15) 15 weeks

### **Intermediate Financial Accounting I**

This course examines issues and problems related to GAAP for income determination and revenue recognition. International Financial Reporting Standards (IFRS) and Accounting standards for Private Enterprises (ASPE) relating to recognition, measurement, and financial statement presentation of assets are addressed.

**Prerequisites:** ACCT 2001 or 1602 or consent of the Donald School of Business

**ACCT 3210-3** (BC=4)  
(45-0-15) 15 weeks

### **Intermediate Financial Accounting II**

This course provides an in-depth analysis of accounting theory and principles related to the reporting of short-term and long-term liabilities, leases, pensions, corporate income taxes, shareholders' equity, complex financial instruments, earnings per share, the cash flow statement, and accounting changes and error analysis. International Financial Reporting Standards (IFRS) and Accounting Standards for Private Enterprises (ASPE) relating to recognition, measurement, and financial statement presentation of liabilities and equity are addressed.

**Prerequisite:** ACCT 3209 or consent of the Donald School of Business

**ACCT 3405-3** (BC=3)  
(45-0-0)

### **Tax II**

Analyze case scenarios and interpret case facts to calculate taxes for both individuals and corporations including proposing tax strategies for management decision-making.

**Prerequisite:** ACCT 2305 or BADM 285 or by consent of the Associate Dean

**ACCT 4306-3** (BC=3)  
(45-0-0)

### **Audit**

Construct an audit engagement plan. Topics include auditor ethics and legal responsibilities, assurance services, internal controls, and gathering audit evidence for the receivables and payables cycles.

**Prerequisite:** ACCT 3210 or by consent of the Associate Dean

**Antirequisite:** ACCT 306

**Equivalent:** ACCT 306

**ACCT 4308-3** (BC=3)  
(45-0-0)

### **Advanced Management Accounting**

Evaluate financial and non-financial results in case-based scenarios, applying management accounting tools to determine consistency with strategy and to provide suggestions for improvement.

**Prerequisite:** ACCT 2204 or by consent of the Associate Dean

**Antirequisite:** ACCT 308

**Equivalent:** ACCT 308

**ACCT 4310-3** (BC=3)  
(45-0-0)

### **Advanced Financial Accounting**

Analyze complex accounting issues primarily related to investments, foreign currency transactions, and not-for-profit organizations.

**Prerequisite:** ACCT 3210 or consent of the Associate Dean

**Antirequisite:** ACCT 310

**Equivalent:** ACCT 310

## Acting

**ACT 1109** (BC=3)  
(30-0-45) 15 Weeks

### **Acting I**

Explore the potential of the self to express creative ideas, thoughts and feelings through storytelling. Introduction to acting as behaving under given imaginary circumstances.

**ACT 3326-3** (BC=3)  
(30-0-30) 15 Weeks

### **Directing for Film I**

Study in detail the director's contributions to the creative process of producing a film. Examine strategies to encourage and influence the actors' contributions to the process. Communicating effectively with above-the-line personnel.

**Prerequisite:** FTLE 2205

## Administrative Professional

**APRO 1100-3** (BC=3)  
(45-0) 15 weeks

### **Document Processing I**

Develop keyboarding speed and accuracy through an emphasis on building skill using proper technique.

**APRO 1100-3** (BC=3)  
(45-0) 15 weeks

### **Information Processing**

Introduce computer concepts, systems, and terminology using Microsoft Windows and Word. Develop electronic file management and basic Word skills.

<b>APRO 1101-3</b> (BC=3) (45-0) 15 weeks <b>Spreadsheet Fundamentals</b> Develop basic to intermediate skills in the operations of Microsoft Excel. Create and format worksheets and charts; write formulas; perform what-if analyses; and, use financial functions.	<b>APRO 1160-3</b> (BC=3) (45-0) 15 weeks <b>Personal Leadership</b> Develop interpersonal communication skills; practice oral presentation skills; application of professional skills; and, complete a class project.	<b>ANTH 2309-3</b> (BC=3) (45-0-0) 15 weeks <b>Biological Anthropology</b> Explore human origins, evolution and diversity. Topics include evolutionary theory, primatology, human palaeontology, osteology, variation and adaptation in modern populations, and genetic evidence of ancestry.
<b>APRO 1102-3</b> (BC=3) (45-0) 15 weeks <b>Computer Essentials</b> 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.	<b>APRO 1170-3</b> (BC=3) (120 hours) 6 weeks <b>Practicum</b> Application of technical and administrative skills through employment in an office setting. <b>Prerequisite:</b> A minimum GPA of 2.00 with no grade lower than D in the Administrative Professional Certificate fall and winter term courses.	<b>ANTH 2321-3</b> (BC=3) (45-0-0) 15 weeks <b>Survey: Latin America</b> Apply an ethnographic perspective to survey modern Latin American cultures in Mexico, the U.S., the Caribbean, and Central and South America, with an emphasis on their development from the 16th to the 21st century. Topics may range from historical to contemporary issues.
<b>APRO 1111-3</b> (BC=3) (45-0) 15 weeks <b>Document Processing II</b> Further develop keyboarding speed and accuracy skills. Produce business correspondence, including using mail merge, sorting and selecting functions, fill-in forms, tables, and columns to produce visually appealing and professional-looking documents. <b>Prerequisites:</b> APRO 1100, 1110	<h2 style="color: green;">Anthropology</h2>	<b>ANTH 2327-3</b> (BC=3) (45-0-0) 15 weeks <b>Cultures in Global Context</b> Examine the historical development of indigenous and minority cultures around the world. Focus on relationships among race, class, culture, and politics. Critical analysis of genocide, ethnocide, and prospects for the future.
<b>APRO 1126-6</b> (BC=6) (90-0) 15 weeks <b>Basic Accounting</b> Apply accounting principles in manual and automated environments and learn the fundamentals of accounting through hands-on experience.	<b>ANTH 1200-3</b> (BC=3) (45-0-0) 15 weeks <b>People and Biocultural Evolution</b> Examine people and cultures around the world, using basic concepts of archaeology and biological anthropology (e.g. methodology, evolution, primatology, human origins/ancestry).	<b>ANTH 2330-3</b> (BC=3) (45-0-0) 15 weeks <b>Technology and Culture</b> Explore the evolution of human tools and technologies. How society adapts to environment through technology. Relationships between technology, ideology and social organization. Role of technology in shaping culture.
<b>APRO 1130-3</b> (BC=3) (45-0) 15 weeks <b>Office Systems I</b> Develop current office practices including records management, telephone calls, mail procedures, social media apps and basic business math.	<b>ANTH 1201-3</b> (BC=3) (45-0-0) 15 weeks <b>People and Culture</b> Examine people and cultures around the world, using basic anthropological concepts (e.g. culture, linguistic anthropology, practices, culture change).	<b>ANTH 2331-3</b> (BC=3) (45-0-0) 15 weeks <b>Anthropology of Gender</b> Examine the historical development of gender and women's studies in anthropological context. Gender as a central feature of social identity and relations of power. Theoretical perspectives and feminist approaches.
<b>APRO 1131-3</b> (BC=3) (45-0) 15 weeks <b>Office Systems II</b> Explore the systems, procedures and technology of the contemporary office. Complete an office simulation package. <b>Prerequisites:</b> APRO 1130, APRO 1110 and APRO 1100	<b>ANTH 2306-3</b> (BC=3) (45-0-0) 15 weeks <b>Archaeology</b> Explore the nature, purposes, theory, and methods of anthropological archaeology. Emphasis on how archaeological evidence (e.g. material culture, human remains, dating techniques) is used to reconstruct past societies and explain cultural change and evolution.	<b>ANTH 2356-3</b> (BC=3) (45-0-0) 15 weeks <b>Survey: Indigenous Canada</b> Apply an ethnographic perspective in a survey of Canadian Indigenous cultures (First Nations, Inuit, Metis). Topics may range from interactions with European settler cultures to historical and contemporary issues.
<b>APRO 1135-3</b> (BC=3) (45-0) 15 weeks <b>Introduction to Industry Sectors</b> Assist the students in determining an industry sector for practicum and workforce employment. Increase the students' awareness and understanding of the industries within Alberta. Create an effective resume, cover letter, and portfolio. Develop interview skills.	<b>ANTH 2307-3</b> (BC=3) (45-0-0) 15 weeks <b>Cultural Anthropology</b> Compare human societies and cultures, particularly non- Western communities. Emphasis is on family, social structure, political institutions, subsistence and economic practices, religion and processes of change.	

**ANTH 2361-3** (BC=3)  
(45-0-0) 15 weeks  
**Mesoamerica and Central America**  
Explore the archaeology and cultural history of the indigenous peoples and civilizations of Mesoamerica and Central America, with special focus on Mexican groups (e.g. Maya, Aztecs, Olmecs). Topics include technology, social and political organization, economic systems, religion and worldview, languages, and artistic traditions.

**ANTH 2363-3** (BC=3)  
(45-0-0) 15 weeks  
**Anthropology of Religion**  
Explore religious practice, ritual, belief systems, and worldview in cultures around the world from the perspective of anthropological theory. Traditional and world religions. Taboo, divination, healing, sacrifice, shamanism, magic and witchcraft. Relations between religious belief and practice and other aspects of culture.

**ANTH 2370-3** (BC=3)  
(45-0-0) 15 weeks  
**Special Topics in Archaeology**  
Examine selected topics in archaeology and/or biological anthropology.  
This course may be repeated for credit.  
Prerequisites: ANTH 1200 or consent of the department

## Art

**ART 1101-5** (BC=.5)  
(0-10) 15 weeks  
**Visiting Artists**  
Experience the work and ideas of visiting professional studio artists in this presentation-based course. Gain insight into their practices and influence on the community.

**ART 1201-3** (BC=3)  
(45-0-0) 15 weeks  
**Art History I**  
Explore developments and concepts in art, architecture, and culture in the Western hemisphere. Examine the periods of pre-history through to the Renaissance.

**ART 1203-3** (BC=3)  
(45-0-0) 15 weeks  
**Art History II**  
Explore concepts, theory, and developments in art, architecture, and culture in the Western hemisphere. Examine the periods of the Renaissance through to present day.

**ART 1221-3** (BC=3)  
(45-0-0) 15 weeks  
**Digital Photography I**  
Introduce the technical and artistic aspects of digital photography. Students will operate a digital camera to produce images while applying the principles of composition within a frame and evaluating elements such as exposure, lighting, and depth of field.

**ART 1231-3** (BC=5)  
(60-0-30) 15 weeks  
**Visual Fundamentals 2D**  
A foundation level, project based studio course that introduces the formal elements and principles of two dimensional design.

**ART 1233-3** (BC=5)  
(60-0-30) 15 weeks  
**Visual Fundamentals II**  
Explore 3D art through projects that emphasize visual elements and design principles. Develop foundational techniques using the Principles and Elements of Design to create successful works of art and design.

**ART 1241-3** (BC=5)  
(60-0-30) 15 weeks  
**Drawing I**  
Practice foundational drawing processes using subject matter including still life, portraiture, and life drawing. Develop perceptual and technical skills in this project-based studio course.  
Note: May include use of life models.

**ART 1243-3** (BC=5)  
(60-0-30) 15 weeks  
**Drawing II**  
Practice foundational drawing processes using subject matter including still life, portraiture, and life drawing. Develop perceptual and technical skills in this project-based studio course.  
Prerequisite: ART 1241  
Note: May include use of life models.

**ART 1251-3** (BC=5)  
(60-0-30) 15 weeks  
**Painting I**  
Practice foundational painting processes using subject matter including still life, portraiture, and life drawing. Develop perceptual and technical skills in this project-based studio course.  
Note: May include use of life models.

**ART 1261-3** (BC=5)  
(60-0-30) 15 weeks  
**Ceramics I**  
Practice foundational ceramic processes and develop technical skills with clay. Use design principles in this project-based studio course. Exploration of different firing methods and surface techniques.

**ART 1281-3** (BC=5)  
(60-0-30) 15 weeks  
**Sculpture I**  
Practice foundational sculpture processes in a variety of media and techniques. Develop technical skills in building and production. Emphasis on applying creative design principles. Will participate in the Bronze Casting process.

**ART 2301-3** (BC=3)  
(45-0-0) 15 weeks  
**Canadian Art History**  
Explore, challenge, and reshape traditional narratives within the realm of Canadian art. Investigate inclusion, regionalism, Indigenization, and the visual and material culture of Canada.

**ART 2303-3** (BC=3)  
(45-0) 15 weeks  
**Contemporary Canadian Art**  
Examine themes and concepts prevalent in contemporary Canadian art, including internationalization, Indigenous contemporary art, inclusion, and regionalism. Explore how Canada perceives itself and expresses and challenges Canadian culture through visual arts.

**ART 2305-3** (BC=3)  
(45-0-0) 15 weeks  
**19<sup>th</sup> Century Western Art History**  
Explore Western painting, sculpture, and architecture from the 19<sup>th</sup> century to Post-Impressionism. Emphasis on key developments, cultural context, and artistic movements.

**ART 2306-3** (BC=3)  
(45-0-0) 15 weeks  
**20<sup>th</sup> and 21<sup>st</sup> Century Art History**  
Explore the history of arts, crafts, and architecture from the end of Post-Impressionism through to the 21<sup>st</sup> century. Explore diverse global perspectives, contextualize artistic developments, and analyze key artistic movements, styles and trends.

**ART 2310-1** (BC=1)  
(15-0-0) 15 weeks  
**Professional Practice I**  
Explore issues, responsibilities, techniques, and systems in professional artistic practice. Emphasizes portfolio development and career planning.  
Prerequisites: ART 1231 and 1241  
Corequisites: ART 1201 or 1203

**ART 2311-1** (BC=1)  
(15-0) 15 weeks  
**Professional Practice II**  
Develop artistic practice by exploring topics in grant writing, applications, proposals, and networking strategies. Emphasis is placed on presenting a professional portfolio and developing effective career plans.  
Prerequisites: ART 1231, 1241  
Corequisites: ART 1201 or 1203



<b>ART 2341-3</b> (BC=5) (60-0-30) 15 weeks <b>Drawing III</b> Develop intermediate drawing skills through project-based exploration of traditional, contemporary, and experimental approaches. Emphasis on still life, landscape, and figuration drawing from observation. <b>Prerequisites:</b> ART 1241 and ART 1243 <b>Note:</b> May include use of life models.	<b>ART 2381-3</b> (BC=5) (60-0-30) 15 weeks <b>Sculpture II</b> Explore intermediate sculpture techniques in diverse media. Develop skills, techniques, and material understanding for traditional, contemporary, and experimental approaches. Emphasize problem-solving, material manipulation, and presentation in the larger context of sculpture. <b>Prerequisite:</b> ART 1281 <b>Note:</b> May include use of life model.	<b>ART 3451-3</b> (BC=5) (60-0-30) 15 weeks <b>Painting Independent Study I</b> Create personal artwork emphasizing composition and concept. Develop painting skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2351 or ART 2353 <b>Note:</b> May include use of life models.
<b>ART 2343-3</b> (BC=5) (60-0-30) 15 weeks <b>Drawing IV</b> Advance intermediate drawing skills through project-based exploration of traditional, contemporary, and experimental approaches. Emphasis on still life, narrative work, figuration, and observation. <b>Prerequisites:</b> ART 1241 and ART 1243 <b>Note:</b> May include use of life models.	<b>ART 2383-3</b> (BC=5) (60-0-30) 15 weeks <b>Sculpture III</b> Expand intermediate sculpture skills, techniques, and material understanding. Apply traditional, contemporary, and experimental approaches to idea generation, installation, and technology in the broader context of sculpture. Emphasize critical thinking, presentation, and contextual awareness. <b>Prerequisite:</b> ART 1281 <b>Note:</b> May include use of life model.	<b>ART 3453-3</b> (BC=5) (60-0-30) 15 weeks <b>Painting Independent Study II</b> Create personal artwork emphasizing composition and concept. Develop painting skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2351 or ART 2353 <b>Note:</b> May include use of life models.
<b>ART 2351-3</b> (BC=5) (60-0-30) 15 weeks <b>Painting II</b> Refine intermediate painting skills through a series of projects that explore traditional, contemporary, and experimental approaches. Emphasis on painting from observation, concept development, and problem-solving. <b>Prerequisite:</b> ART 1251 <b>Note:</b> May include use of life models.	<b>ART 2391-3</b> (BC=5) (60-0-30) 15 weeks <b>2D Art and Technology I</b> Explore fundamental concepts, techniques, and strategies for contemporary two-dimensional art practices. Emphasize traditional, contemporary, and experimental approaches, as well as new and developing technologies and media. Incorporate digital, mechanical, and hand tools. <b>Prerequisites:</b> ART 1231 and ART 1241 <b>Note:</b> May include use of life models.	<b>ART 3461-3</b> (BC=5) (60-0-30) 15 weeks <b>Ceramics Independent Study I</b> Create personal artwork emphasizing composition and concept. Develop ceramic skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2361 or ART 2363
<b>ART 2353-3</b> (BC=5) (60-0-30) 15 weeks <b>Painting III</b> Expand intermediate painting skills and material understanding. Apply traditional, contemporary, and experimental approaches to idea generation, application, and, imagery. Emphasize critical thinking, presentation, and contextual awareness. <b>Prerequisite:</b> ART 1251 <b>Note:</b> May include use of life models.	<b>ART 2393-3</b> (BC=5) (60-0-30) 15 weeks <b>2D Art and Technology II</b> Explore fundamental concepts, techniques, and strategies for contemporary two-dimensional art practices. Emphasize traditional, contemporary, and experimental approaches, as well as new and developing technologies and media. Incorporate digital, mechanical, and hand tools. <b>Prerequisites:</b> ART 1231 and ART 1241 <b>Note:</b> May include use of life models.	<b>ART 3463-3</b> (BC=5) (60-0-30) 15 weeks <b>Ceramics Independent Study II</b> Create personal artwork emphasizing composition and concept. Develop ceramic skills independently while practicing research and experimentation.
<b>ART 2361-3</b> (BC=5) (60-0-30) 15 weeks <b>Ceramics II</b> Refine intermediate ceramic techniques in wheel throwing and hand-building. Emphasize surface development, glazing, and firing technology. Explore historical and contemporary contexts while developing personal style and expression. <b>Prerequisite:</b> ART 1261	<b>ART 3481-3</b> (BC=5) (60-0-30) 15 weeks <b>Sculpture Independent Study I</b> Create personal artwork emphasizing composition and concept. Develop sculpture skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2381 or ART 2383 <b>Note:</b> May include use of life models.	<b>ART 3483-3</b> (BC=5) (60-0-30) 15 weeks <b>Sculpture Independent Study II</b> Create personal artwork emphasizing composition and concept. Develop sculpture skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2361 or ART 2363 <b>Note:</b> May include use of life models.
<b>ART 2363-3</b> (BC=5) (60-0-30) 15 weeks <b>Ceramics III</b> Refine intermediate ceramic techniques in wheel throwing and hand-building. Emphasize surface development, glazing, and firing technology. Explore historical and contemporary contexts while developing personal style and expression.	<b>ART 3441-3</b> (BC=5) (60-0-30) 15 weeks <b>Drawing Independent Study I</b> Create personal artwork emphasizing composition and concept. Develop drawing skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2341 or ART 2343 <b>Note:</b> May include use of life models.	<b>ART 3491-3</b> (BC=3) (3-0-0) 15 weeks <b>2D Art and Technology Independent Study I</b> Create personal artwork emphasizing composition and concept. Develop drawing skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2391 and ART 2393 <b>Note:</b> May include use of life models.
	<b>ART 3443-3</b> (BC=5) (60-0-30) 15 weeks <b>Drawing Independent Study II</b> Create personal artwork emphasizing composition and concept. Develop drawing skills independently while practicing research and experimentation. <b>Prerequisite:</b> ART 2341 or ART 2343 <b>Note:</b> May include use of life models.	

**ART 3493-3** (BC=3)  
 (45-0-0) 15 weeks  
**2D Art and Technology Independent Study II**  
 Create personal artwork emphasizing composition and concept. Develop drawing skills independently while practicing research and experimentation.  
**Prerequisite:** ART 2391 and ART 2393  
**Note:** May include use of life models.

## Arts and Animation

**ARAN 1110-3** (BC=5)  
 (60-0-30) 15 Weeks  
**Drawing and Figure Sculpting from Life**  
 Develop technical skills, perceptual skills, and an understanding of how to represent a dynamic, believable human form in both two and three dimensions. Develop a strong foundational experience in portraying accurate anatomy of the human figure.  
**Prerequisites:** ART 1231 and ART 1241  
**Note:** May include use of life models.

**ARAN 2205-3** (BC=5)  
 (60-0-30) 15 Weeks  
**Life Drawing II**  
 Learn to utilize exaggeration, foreshortening, value, and the overall dynamic reality of the human form.  
**Prerequisite:** ARAN 1110  
**Note:** May include use of life models.

**ARAN 3305-3** (BC=5)  
 (60-0-30) 15 Weeks  
**Life Drawing III**  
 An advanced experience in drawing the human form, concentrating on areas such as fabric folds, the creation of atmosphere using value and line, and creating the feeling of flesh, bone, and cloth by adding marks to paper.  
**Prerequisite:** ARAN 2205  
**Note:** May include use of life models.

## Animation and Visual Effects

**AVFX 1101-5** (BC=5)  
 (60-0-30) 15 Weeks  
**3D Animation Fundamentals**  
 Learn the basic principles and techniques of digital 3D animation and rigging. Use the 12 principles of animation: squash and stretch, anticipation, staging, straight ahead versus pose to pose, follow through and overlapping action, slow in and slow out, arcs, secondary action, timing, exaggeration, solid drawing, and appeal.

**AVFX 1103-5** (BC=5)  
 (60-0-30) 15 Weeks  
**Layout and Design**  
 Draw with correct perspective. Design locations and characters that serve the story. Create layouts for animation.  
**Prerequisites:** ART 1241, ART 1231  
**Corequisites:** CREA 1110

**AVFX 1107-5** (BC=5)  
 (60-0-30) 15 Weeks  
**3D Animation and Visual Effects**  
 Create simple animations that encompass the typical steps taken in a 3D animation production pipeline. Create 'previs' animations.  
**Prerequisites:** AVFX 1101  
**Corequisites:** AVFX 1103

**AVFX 1109-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Animation History**  
 The history of animation and visual effects (VFX). Survey of cultural, economic, and technological trends that shaped the industry. Analysis of representative animated films.

**AVFX 2201-5** (BC=5)  
 (60-0-30) 15 Weeks  
**Modeling and Texture Painting I**  
 Create hard surface models in 3D software using box modeling, and high poly sculpting and baking techniques. Layout efficient texture coordinates, and create 2D texture maps.  
**Prerequisite:** AVFX 1107

**AVFX 2203-5** (BC=5)  
 (60-0-30) 15 Weeks  
**3D Character Animation I**  
 Building on the 12 principles of animation, create character animation in a 3D environment on a computer. Develop function curves and playblasts while creating both bipedal and quadrupedal animations.  
**Prerequisites:** AVFX 1101 and AVFX 1107

**AVFX 2207-3** (BC=3)  
 (30-0-45) 15 Weeks  
**Colour and Light**  
 Augment the telling of a story using colour and light. Create colour keys, use colour and layout to control the viewer's eye. Create colour scripts.  
**Prerequisites:** ART 1231, ART 1241 and AVFX 1103

**AVFX 2209-5** (BC=5)  
 (60-0-30) 15 Weeks  
**Post Production I**  
 Intro to basic compositing, rotoscoping, tracking and working with screen footage using typical feature film and animation workflows. This is combined with an intro to basic editing, and building edits from storyboards of sequences, such as dialogues and lines of action.  
**Prerequisites:** CREA 1110

**AVFX 2211-3** (BC=3)  
 (30-0-45) 15 Weeks  
**Storyboarding**  
 Learn thumbnailing, rough composition, and final storyboards; communicating camera moves; aspect ratios; types of shots; lessons from film direction, such as continuity between shots, composition, staging, and silhouettes. Visually communicate a basic 3 act story structure in storyboard form. Create, revise and pitch storyboards.  
**Prerequisites:** ART 1231, CREA 1110, AVFX 1101 and AVFX 1103

**AVFX 2213-3** (BC=3)  
 (30-0-45) 15 Weeks  
**Rigging I**  
 Focusing on the articulation of joints, create animation ready rigs for animated characters within 3D software.  
**Prerequisite:** AVFX 1107

**AVFX 2215-5** (BC=5)  
 (60-0-30) 15 Weeks  
**Digital Sculpting**  
 Digitally sculpt and then retopologize character models. Prepare models for animation and texture painting with an awareness of appealing form, skeletal landmarks and muscular groups.  
**Prerequisite:** AVFX 1201

**AVFX 3301-3** (BC=3)  
 (30-0-45) 15 Weeks  
**Texture Painting II**  
 Learn various texturing workflows. Produce artwork for your demo reel, with a focus on painted textures.  
**Prerequisites:** AVFX 1107, AVFX 2201 and AVFX 2207  
**Corequisite:** AVFX 3307

**AVFX 3303-5** (BC=5)  
 (60-0-30) 15 Weeks  
**3D Character Animation II**  
 Animation of complex action for both bipedal and quadrupedal characters, as well as complex dialogue between multiple characters. Animation principles are applied to lip sync and pantomime.  
**Prerequisite:** AVFX 2203

**AVFX 3307-3** (BC=3)  
 (30-0-45) 15 Weeks  
**Lighting and Rendering**  
 Work with a variety of digital lighting and rendering scenarios in 3D software. Learn render farm workflows.  
**Prerequisites:** AVFX 1107, AVFX 2207 and AVFX 2209

**AVFX 3309-5** (BC=5)  
**(60-0-30) 15 Weeks**  
**Advanced Compositing**  
 Compositing of CG rendered passes, learning wire rig removal and the creation of clean plates, pulling a key from greenscreen footage, and the incorporation of 2.5D/3D set design/matte paintings. Intro to stereoscopic setup and immersive virtual reality compositing flows.  
**Prerequisite:** AVFX 2209

**AVFX 3311-2** (BC=3)  
**(30-0-15) 15 Weeks**  
**Special Projects in Collaboration**  
 Collaborate on a 3D animation-related project with a client, either internal or external to the college. This project will include meeting milestones for clients, as well as producing demo reel materials.  
**Prerequisite:** Successful completion of all third year Term 1 courses.

**AVFX 3313-5** (BC=5)  
**(60-0-30) 15 Weeks**  
**Rigging II**  
 A focus on deformation of meshes. Problem solve rigging situations and create complex animation-ready rigs for animated characters, with 3D software.  
**Prerequisite:** AVFX 2213

**AVFX 3315-2** (BC=3)  
**(32-0-16) 8 Weeks**  
**Matchmoving/3D Integration**  
 Work with film footage as image sequences, practice matchmoving and 3D integration. Build camera tracks. Extract 3D information from 2D footage.  
**Prerequisite:** AVFX 1107

**AVFX 3317-2** (BC=3)  
**(28-0-14) 7 Weeks**  
**Motion Capture Cleanup**  
 Clean up raw motion capture files, creating useable cycles. Test them in 3D software.  
**Prerequisites:** AVFX 1107, AVFX 2209 and AVFX 3303

**AVFX 3319-5** (BC=5)  
**(60-0-30) 15 Weeks**  
**Visual Effects**  
 Design and develop visual effects simulation in node based software. Examples may include rigid body dynamics, cloth simulations, particles simulations such as explosions, smoke, fluids, and fur.  
**Prerequisites:** AVFX 1107 and AVFX 3309

**AVFX 4405-15** (BC=15)  
**(45-0-420) 15 Weeks**  
**Pre-Production for Area of Specialization**  
 Plan and execute pre-production for 3D animation related to final project(s). Identify mentors. Assemble previs. Develop production assets for 3D animation related final project(s) to a 50% level of completion. Work with mentors. Meet individual milestones.  
**Prerequisite:** Successful completion of all third year courses

**AVFX 4410-15** (BC=15)  
**(45-0-420) 15 Weeks**  
**Production for Area of Specialization**  
 Develop production assets for 3D animation related final project(s), to a level of completion ready for postproduction (such as compositing). Work with mentors. Meet individual milestones. Complete post production for 3D animation related final project(s). Compile demo reel materials.  
**Prerequisite:** AVFX 4405

## Astronomy

**ASTR 1205-3** (BC=3)  
**(45-0) 15 weeks**  
**The Modern Universe**  
 Explore the wonders of the Universe using the basic principles of motion and light. Discuss current knowledge of the solar system, stars and galaxies. Discover the night sky using modern astronomical methods.

## Biochemistry

**BIOC 2301-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Introductory Biochemistry**  
 Introduction to the fundamental principles of biochemistry with no laboratory component. Study of protein structure and function, lipids and the structure of biological membranes, nucleotides and the structure of nucleic acids, bioenergetics and the metabolism of carbohydrates, lipids and nitrogen, the integration and regulation of cellular metabolism.  
**Prerequisite:** CHEM 1211 or CHEM 2351  
**Antirequisite:** BIOC 2393  
**Restrictions:** Students may only transfer BIOC 2301 or BIOC 2393 for credit

**BIOC 2393-3** (BC=4)  
**(45-0-45) 15 weeks**  
**Fundamentals of Biochemistry**  
 Introduction to the fundamental principles of biochemistry with laboratory component. Study of protein structure and function, lipids and the structure of biological membranes, nucleotides and the structure of nucleic acids, bioenergetics and the metabolism of carbohydrates, lipids and nitrogen, the integration and regulation of cellular metabolism.  
**Prerequisite:** CHEM 1211 or CHEM 2351  
**Antirequisite:** BIOC 2301

## Biology

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

**BIOL 1201-3** (BC=4)  
**(45-0-45) 15 weeks**  
**Concepts in Biology**  
 Evaluate characteristics of living organisms. Survey cellular processes, genetic information, heredity, and evolutionary principles. Apply the scientific method including hypothesis, experimental design, data collection and conclusion in a lab setting.  
**Prerequisite:** Biology 30

**BIOL 1217-3** (BC=4)  
**(45-45) 15 weeks**  
**Introduction to Cell Biology**  
 Survey 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 and Chemistry 30

**BIOL 1218-3** (BC=4)  
**(45-0-45) 15 weeks**  
**Evolutions and Biological Diversity**  
 Examines the major lineage of life on Earth. Overview of evolutionary principles and classification, the history of life, and the key adaptations of prokaryotes, protists, fungi, plants, and animals. Laboratories survey the diversity of biological form and function, and introduce the students to data collection and scientific writing.  
**Prerequisite:** Biology 30

**BIOL 2301-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Molecular Cell Biology**  
 Examine the properties, structures, and functions of eukaryotic cells at molecular level. Explore methods in molecular cell biology.  
**Prerequisite:** BIOL 1217

**BIOL 2317-3** (BC=4)  
**(45-0-45) 15 weeks**  
**Molecular Genetics and Heredity**  
 Examine the chromosomal and molecular basis for the transmission and function of genes. Study the fundamental principles of heredity, including Mendelian laws, genetic recombination and mapping. Examine the molecular basis of gene structure, organization, expression and regulation in prokaryotes and eukaryotes.  
**Prerequisite:** BIOL 1217

<b>BIOL 2318-3</b> (BC=4) (45-0-45) 15 weeks <b>Principles of Ecology</b> Examine the interactions between organisms and their environment in various levels of organization including individuals, populations, communities, and ecosystems. Apply the scientific method with a focus on ecological experiments and field studies. Prerequisite: BIOL 1218	<b>BIOL 2399-1.5</b> (BC=2) (0-0-22.5) 15 weeks <b>Biology Research Opportunity Program</b> A biology research project, supervised by a faculty member in the department, which focuses on the development of skills in research methods through engagement in discussions of scientific research and experience in the research environment. Prerequisite: BIOL 1217 or BIOL 1218 and approval of the Department Note: This course is credit/no credit. Note: Application does not guarantee a ROP position.	<b>BIOL 3401-3</b> (BC=4) (45-0-45) 15 weeks <b>Community and Population Ecology</b> Explore the principles of community and population ecology, applied to plants and animals. Prerequisites: BIOL 2318 and STAT 1251 with a minimum letter grade of C- in both
<b>BIOL 2351-3</b> (BC=4) (45-0-45) 15 weeks <b>Anatomy of Vertebrates</b> Compare vertebrate structure and functional significance with an emphasis on mammals. Examine the chordates and the origin of the vertebrates. Survey the vertebrate class and discuss early development and major systems. Prerequisite: BIOL 1218	<b>BIOL 2601-3</b> (BC=3) (3-0) 15 weeks <b>Human Physiology I</b> Introduce fundamental terminology and concepts in human physiology with emphasis on circulatory, immune, endocrine, and nervous systems. Prerequisites: BIOL 1217 plus 6 credits of university level chemistry.	<b>BIOL 3411-3</b> (BC=3) (45-0-0) 15 weeks <b>Evolution</b> Examine evolutionary processes using evidence from the fossil record and extant organisms with a focus on population genetics, heredity, variation, natural selection, adaptation, and speciation. Prerequisites: BIOL 1217 and BIOL 1218 with a minimum letter grade of C- in both
<b>BIOL 2352-3</b> (BC=3) (45-0-0) 15 weeks <b>Animal Physiology</b> Examine the physiology of cellular communication in animals with emphasis placed on the role and function of the nervous (including sensory receptors), muscular, endocrine and immune systems. Prerequisite: BIOL 1217	<b>BIOL 2602-3</b> (BC=3) (3-0) 15 weeks <b>Human Physiology II</b> Introduce fundamental terminology and concepts in human physiology with emphasis on muscular, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Prerequisites: BIOL 2601 Corequisite: CHEM 3351	<b>BIOL 3801-3</b> (BC=4) (45-0-45) 15 weeks <b>Advanced Cell and Molecular Biology</b> Examine eukaryotic cells in their microenvironment. Explain nuclear structure, organization, and function at molecular level. Examine principles of immunity at cell and molecular level. Explore methods in molecular cell biology. Compare and contrast various cell signaling pathways in eukaryotic cells. Prerequisites: BIOL 2301 and 2317 with a minimum letter grade of C- in both
<b>BIOL 2360-3</b> (BC=4) (45-0-0) 15 weeks <b>Principles of Microbiology</b> Examine structural, biological, and functional diversity of microbial groups. Explores the application of microorganisms in industries. Introduces basic concepts in medical microbiology. Laboratories employs various microbiology techniques for the culturing, identification (classic and PCR-based), and quantification of microorganisms and applies experimental design, data analysis, and scientific writing. Prerequisite: BIOL 1217 or CHEM 2351	<b>BIOL 3101-3</b> (BC=4) (45-0-30) 15 weeks <b>Quantitative Biology</b> Introduction to the application of analytical and statistical methods for examining data sets and evidence in biology. Prerequisites: STAT 1251, BIOL 1217 and BIOL 1218 with a minimum letter grade of C- in all	<b>BIOL 4401-3</b> (BC=3) (30-0-45) 15 weeks <b>Field Methods in Ecology</b> Explore research projects in behavioural, population, and community ecology in a field environment. Apply data collection techniques in field exercises. Fieldwork will take place over two weeks off the main campus. Prerequisites: BIOL 2318 with a minimum letter grade of C- in both
<b>BIOL 2370-3</b> (BC=3) (45-0-0) 15 weeks <b>Molecular Genetics</b> Examine the organization and expression of genetic material in bacteria and viruses based on classic experiments and molecular mechanisms. Topics include: fertility, genetic fine structure, mutagenesis, DNA repair, DNA replication, recombination and the control of gene expression. Prerequisite: BIOL 2317	<b>BIOL 3201-3</b> (BC=4) (45-0-45) 15 weeks <b>Developmental Biology</b> Examine the different developmental processes in organisms and their control by various underlying molecular mechanisms. Emphasis will be placed on current applications of developmental biology in health and life-sciences research. Prerequisites: BIOL 2301 and 2317 with a minimum letter grade of C- in both	<b>BIOL 4491-3</b> (BC=3) (45-0-0) 15 weeks <b>Topics in Ecology and Environmental Biology</b> Examine selected topics in ecology and/or environmental biology. This course may be repeated for credit. Prerequisite: BIOL 2318 with a minimum letter grade of C-
	<b>BIOL 3301-3</b> (BC=4) (45-0-45) 15 weeks <b>General Botany</b> Examine the biology, taxonomy, diversity, evolution, and ecology of plants. Survey the different plant groups through laboratory and field work, data collection, and scientific writing. Prerequisites: BIOL 1217 and BIOL 1218 with a minimum letter grade of C- in both	<b>BIOL 4701-3</b> (BC=3) (45-0-0) 15 weeks <b>Advanced Molecular Genetics</b> Examine the organization and structure of genetic material in eukaryotic cells, including organellar genomes. Explore the field of genomics and its applications. Study the role of RNAs in diverse molecular processes. Prerequisite: BIOL 2370 with a minimum grade of C-

**BIOL 4891-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Cell and Molecular Biology**  
Examine selected topics in cell and/or molecular biology. This course may be repeated for credit.  
**Prerequisites:** BIOL 2301 and 2317 with a minimum letter grade of C- in both

**BIOL 4901-3** (BC=3)  
(45-0-0) 15 weeks  
**Research Design**  
Apply scientific research design methods in the proposal of a biological research question applicable to a field or laboratory setting in consultation with a faculty advisor.

**BIOL 4902-3** (BC=3)  
(0-45-0) 15 weeks  
**Research Experiment**  
Apply scientific research methods to complete a biological research project under the supervision of faculty advisor.

**BIOL 4905-6** (BC=6)  
(90-0-0) 30 weeks  
**Research Thesis**  
Apply scientific research methods to complete a biological research project under the supervision of a faculty advisor. Produce a final thesis and present your work to an audience of peers.  
**Prerequisite:** Permission of the Department  
**Corequisites:** BIOL 4901  
**Antirequisites:** BIOL 4902

## Business

### BUSINESS COURSES

**BUS 306-3** (BC=4)  
(45-0-15) 15 weeks  
**Introduction to Business Statistics I**  
The use of statistics and probability in business decision making. Methods of collecting, organizing, interpreting, and presenting data. Measures of central tendency and dispersion. Discrete and continuous probability distributions. Standard normal distribution. Sampling and statistical estimation. Testing hypotheses. Correlation and simple linear regression.  
**Note:** Credit will not be granted for both BADM 2111 and BUS 306.

**BUS 307-3** (BC=4)  
(45-0-15) 15 weeks  
**Introduction to Business Statistics II**  
Statistical techniques used in business decision making, analysis of variances, chi-square distribution, non-parametric tests of hypotheses, two sample tests, and multiple regression and correlation analysis.  
**Prerequisite:** BUS 306 or BADM 2111

**BUS 310-3** (BC=3)  
(45-0) 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  
**Corequisite:** ACCT 1602  
**Note:** It is strongly recommended that student complete ACCT 1602 before registering in BUS 310.  
**Note:** It is recommended that diploma students take FINS 1150 prior to BUS 310.

**BUS 1010-3** (BC=3)  
(45-0-0) 15 weeks  
**Business Topics and Skills**  
Recognize the importance of establishing values and professional behaviors essential for success in academic and work environments. Identify methods for connecting with self, others, business and community, and learning processes.  
**Co-list:** BUS 1303

**BUS 1100-3** (BC=3)  
(45-0-0) 15 weeks  
**Cross-Cultural Awareness**  
Identify how cultural competency is key to effective and respectful relationships, with a strong emphasis on the Canadian Indigenous people. Improve awareness, understanding, and skills necessary to work in a multicultural environment.

**BUS 1210-3** (BC=3)  
(45-0-0) 15 weeks  
**Data and Information Management**  
Employ technologies for information in organization and sharing, including spreadsheet management, email management, web design, introduction to coding, and data visualization.

**BUS 1303-3** (BC=3)  
(45-0) 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 2110-3** (BC=3)  
(45-0-0) 15 weeks  
**Management Principles**  
Explore the principles theories, concepts, and frameworks of management and how these lead to the effective management of organization.

**BUS 2306-3** (BC=4)  
(45-0-15) 15 weeks  
**Business Statistics I**  
Identify and apply appropriate descriptive, probabilistic and inferential statistical methods for the analysis and presentation of data. Demonstrate proficiency in the use of statistical software.  
**Antirequisite:** STAT 251  
**Equivalents:** BADM 2111 and BUS 306

**BUS 2311-3** (BC=3)  
(45-0-0) 15 weeks  
**Business Law**  
Examine the Canadian legal system and its impact on the world of business. Explore legal risks in business and ways to mitigate these risks.  
**Antirequisite:** BUS 2311  
**Equivalent:** BUS 2311

**BUS 2290-3** (BC=3)  
(45-0-0) 15 weeks  
**Directed Experiential Learning I**  
Examine the integration of business theory into practice through applied learning approaches (research, work practicum, or community service projects). Experiences are at least 90 hours. Includes an introduction to self-reflective practice, explores cross-cultural awareness and effective work environments. Work practicum requires a minimum of 2.5 GPA or permission of program.  
**Credit given but not equivalent:** BADM 270  
**Prerequisites:** BUS 1210 and MKT 1132 and HRM 1281 and BUS 2110 and ACCT 1001 or by consent of the Associate Dean  
**Concurrent Corequisite:** BUS 1100  
**Antirequisite:** BADM 290  
**Equivalent:** BADM 290

**BUS 3211-3** (BC=3)  
(45-0-0)  
**Management Information Systems**  
Evaluate the efficiencies and effectiveness that organizations derive from management information systems. Explore a wide range of technologies and processes, including value chain analysis, networks and telecommunications, hardware and software, ethics and information security, and enterprise applications.  
**Prerequisite:** BUS 1210 or by consent of the Associate Dean

**BUS 3307-3** (BC=4)  
(45-0-15)  
**Business Statistics II**  
Analyze and apply inferential statistical methods for exploring relationships between variables including non-parametric tests, regression, and Analysis of Variance (ANOVA). Collect, analyze, and present results of statistical research using primary data. Demonstrate proficiency in use of advanced statistical software techniques.  
**Prerequisite:** BUS 2306 or by consent of the Associate Dean  
**Antirequisite:** BUS 307  
**Equivalent:** BUS 307



**BUS 3420-3 (BC=3)****(45-0-0)****Operations Management**

Evaluate the efficiency and effectiveness of an organization by analyzing and making recommendations regarding the decision processes involved in production and operations.

**Prerequisite:** BUS 2110 and BUS 2306 or by consent of the Associate Dean

**Antirequisite:** MGMT 3420

**Equivalent:** MGMT 3420

**BUS 3470-3 (BC=3)****(45-0-0)****Ethics, Responsibility, and Sustainability**

Examine and appraise the interrelationship of ethical decision-making, corporate responsibilities, and sustainability of business in society.

**Prerequisites:** BUS 2110 and BUS 1100 or by consent of the Associate Dean

**Antirequisite:** MGMT 4470

**Equivalents:** MGMT 4470

**BUS 4290-3 (BC=3)****(45-0-0)****Directed Experiential Learning II**

Synthesize business theory and practice through applied learning approaches (research, work practicum, community service projects, or applied classroom experiences). At least 90 hours. Explore opportunities for and types of leadership. Advanced self-reflective practice. Work practicum requires a minimum of 2.5 GPA or permission of program.

**Prerequisites:** BUS 3420 and BUS 3470 or by consent of the Associate Dean

**Concurrent Corequisite:** BUS 4640

**BUS 4640-3 (BC=3)****(45-0-0)****Business Intelligence and Analytics**

Design credible methodologies for collecting business intelligence. Construct and interpret data-based visualizations needed to gain stakeholders support or achieve business objectives. Synthesize deductions from interpretations of analyzed data and assess their effect on optimizing decision-making.

**Prerequisites:** BUSS 2306 and BUS 1210 or by consent of the Associate Dean

**BUS 4990-3 (BC=3)****(45-0-0)****Strategic Management**

Analyze competitive situations and synthesize principles of business management to address competitive advantage and future organizational direction. Formulate and develop strategies, analyze fit between key environmental forces and the firm's resources, and develop business solutions using a holistic approach.

**Prerequisites:** BUS 3470 and FNCE 2310 and BUS 3420 and MKT 1132 and HRM 1281 or by consent of the Associate Dean

**Equivalent:** MGMT 4490

**ECONOMICS COURSE****ECON 3327-3 (BC=3)****(45-0-0)****International Money and Finance**

Explore the relationship between monetary policy and macroeconomics issues as it relates to national policy development and the impact on organizations. Topics include exchange rates, economic growth, national debt, international investment, and financial globalization.

**Prerequisite:** ECON 1101 or ECON 202 or by consent of the Associate Dean

**Antirequisite:** ECON 327

**Equivalent:** ECON 327

**ENTREPRENEURSHIP AND SMALL BUSINESS COURSES****ESB 3410-3 (BC=3)****(45-0-0)****Global Trade**

Compare trade decisions from both an economic and political perspective, as well as from a management perspective. Determine how world issues and international business opportunities impact a nation and a corporation.

**Prerequisite:** ECON 1100 or ECON 1101 or ECON 1201 or ECON 1202 or by consent of the Associate Dean

**Antirequisite:** MGMT 3410

**Equivalent:** ECON 325

**ESB 4100-3 (BC=3)****(45-0-0)****Small Business Financing and Law**

Analyze the legal and financial implications of owning a small business and/or family business throughout its lifecycle.

**Prerequisites:** ESB 2251 and BUS 2311 or by consent of the Associate Dean

**ESB 4900-3 (BC=3)****(45-0-0)****Strategic Entrepreneurship and Small Business**

Develop strategies to startup and sustain small business enterprises in a dynamic business environment.

**Credit given but not equivalent:** MGMT 430

**Prerequisites:** ESB 2251 and ESB 4100 or by consent of the Associate Dean

**FINANCE COURSES****FNCE 4315-3 (BC=3)****(45-0-0)****Advanced Corporate Finance**

Evaluate complex capital budgeting decisions. Evaluate potential merger and acquisitions, and determine appropriate financing. Business case analysis and a formal investment banking proposal are core parts of this course.

**Prerequisite:** FNCE 2310 or by consent of the Associate Dean

**Antirequisite:** MGMT 3315

**Equivalent:** MGMT 3315

**FINANCIAL SERVICES COURSES****FINS 3100-3 (BC=3)****(45-0-0)****Mutual Funds / Investing**

Analyze mutual funds and related investment products in Canada, as well as how they are regulated. The industry registration exam is part of the course requirements. A minimum mark must be achieved on the examination in order to qualify for mutual funds registration.

**Prerequisite:** FINS 1150 or FINS 150 or by consent of the Associate Dean

**Antirequisite:** FINS 3100

**Equivalent:** FINS 3100

**FINS 3200-3 (BC=3)****(45-0-0)****Risk Management and Estate Planning**

Examine the risk management process and insurance industry. Evaluate life, health, disability, and property insurance. Review how these products are regulated. Examine taxation, family law, and trusts with regards to estate planning. Receive credit towards Certified Financial Planning (CFP) designation.

**Prerequisite:** FINS 3100 or FINS 250 or by consent of the Associate Dean

**FINS 4100-3 (BC=3)****(45-0-0)****Commercial Credit**

Analyze and construct a commercial credit and application for adjudication by applying appropriate risk management techniques, commonly used analytical benchmarks, and appropriate credit products.

**Prerequisites:** FNCE 2310 and FINS 2100 or by consent of the Associate Dean

**FINS 4200-3 (BC=3)****(45-0-0)****Retirement Planning**

Synthesize learning in the development of comprehensive retirement planning strategies. Assess government, employer, and private retirement support and shortfalls. Receive credit towards Certified Financial Planning (CFP) designation.

**Prerequisites:** FINS 2100 and FINS 3200 and ACCT 2305 or by consent of the Associate Dean

**Antirequisite:** FINS 287

**Credit given but not equivalent:** FINS 287

**HUMAN RESOURCE MANAGEMENT COURSES****HRM 3525-3 (BC=3)****(45-0-0)****Total Rewards**

Assess the link between an organization's strategy and its total rewards and compensation systems. Utilize a practical framework to design, implement, and evaluate a total rewards system.

**Prerequisites:** HRM 1201 and ACCT 1001 or by consent of the Associate Dean

**Co-list:** BADM 2256

**HRM 3535-3** (BC=3)  
(45-0-0)  
**Labour Relations**  
Explore the management of workplaces where unions are present through a labour relations framework. The impact of economy, government, society, and laws are examined in connection to how unions represent workers through organization, collective agreements, bargaining, and dispute resolution.  
**Prerequisites:** HRM 1201 and BUS 2311 or by consent of the Associate Dean  
**Co-list:** BADM 2280

**HRM 4520-3** (BC=3)  
(45-0-0)  
**Learning and Development**  
Assess, design, and develop learning initiatives from a broader organizational and strategic perspective. Construct an overview to strategic learning and development interventions, and assessment of individual and organizational initiatives.  
**Prerequisite:** HRM 2530 or BADM 2258 or by consent of the Associate Dean  
**Antirequisite:** BADM 2254  
**Equivalent:** BADM 2254

**HRM 4900-3** (BC=3)  
(45-0-0)  
**Strategic HR Management**  
Evaluate the overall role and functions of human resource management in relation to an organization's strategic planning. Students will explore how to manage human resources effectively within organizations. Synthesize the different HR components to understand the interaction of each in an effective organization.  
**Prerequisites:** HRM 4520 and BUS 3420 or by consent of the Associate Dean

## MARKETING COURSES

**MKT 3234-3** (BC=3)  
(45-0-0)  
**Digital and Social Media Marketing**  
Combine marketing theory with latest technological tools to build and apply digital strategies in order to engage, build, and sustain customer relationships. Examine the importance and best practices in new media management tools and social media marketing platforms in today's digital landscape.  
**Prerequisite:** MKT 1132 or by consent of the Associate Dean

**MKT 3300-3** (BC=3)  
(45-0-0)  
**Buyer and Consumer Behaviour**  
Develop an appreciation for the buying and behaviour of individuals and organizations as affected by the psychological and sociological forces within society. Assess the impact of technology on buying behaviour and ethical issues faced by marketers when making decisions.  
**Prerequisite:** MKT 1132 or by consent of the Associate Dean

**MKT 4247-3** (BC=3)  
(45-0-0)  
**Retail / Phygital Management**  
Examine the many key functional areas within a retail business in order to formulate strategies that can result in profitable retail performance. Analyze the impact and contribution of technology on the optimization of channel operations of a retail business.  
**Prerequisite:** MKT 3300 or by consent of the Associate Dean  
**Credit given but not equivalent:** BADM 247 and BADM 238

**MKT 4900-3** (BC=3)  
(45-0-0)  
**Strategic Marketing**  
Design marketing strategies for current and future business environments in order to create and capture customer value and create a sustainable competitive edge. Examine marketing decision-making and planning frameworks and explore strategy options, opportunity analysis, strategy setting, and implementation.  
**Prerequisites:** MKT 3234 and BUS 3420 or by consent of the Associate Dean

## Business Administration

**BADM 1110-3** (BC=3)  
(45-0) 15 weeks  
**Introduction to Management**  
Learn how to manage organizations in an ethical and socially responsible manner to maximize productivity within the constraints of the business environment. Competency modules include the theoretical and applied aspects of planning, organizing, leading and controlling.

**BADM 2111-3** (BC=4)  
(45-0-15) 15 weeks  
**Introduction to Statistics**  
The use of statistics and probability in business decision making. Methods of collecting, organizing, interpreting, and presenting data. Measures of central tendency and dispersion. Discrete and continuous probability distributions. Standard normal distribution. Sampling and statistical estimation. Testing hypotheses. Correlation and simple linear regression.  
**Note:** Credit will not be granted for both BADM 2111 and BUS 306.

**BADM 2204-3** (BC=3)  
(45-0) 15 weeks  
**Interpersonal Skills**  
Theory and skills of interpersonal relations. Topics include: understanding and improving interpersonal relationships, perception, customer service, negotiation skills, conflict resolution, giving and receiving feedback, presentation skills, coaching and counselling, interviewing skills.

**BADM 2211-3** (BC=3)  
(45-0-0) 15 weeks  
**Management Information Systems**  
This course focuses on the role of information technology in an organization and its application to business problems. Techniques for designing, implementing and managing information systems are presented. Topics covered include hardware and software, file management, database organization, networking and telecommunications, systems development and design, flowcharting, system security, backup and recovery, and artificial intelligence.

**BADM 2232-3** (BC=3)  
(45-0) 15 weeks  
**Business Technology II**  
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.

**BADM 2233-3** (BC=3)  
(45-0) 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.

**BADM 2234-3** (BC=3)  
(45-0) 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.

**BADM 2235-3** (BC=4)  
(45-15) 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.

**BADM 2238-3** (BC=4)  
(45-15) 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

<b>BADM 2240-3</b> <b>(45-0) 15 weeks</b> <b>Personal Selling</b> 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.	<b>(BC=3)</b>	<b>BADM 2251-3</b> <b>(45-0) 15 weeks</b> <b>Entrepreneurship</b> 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. <b>Note: Designed for BADM students.</b> <b>Note: Not open to students in the first year without consent of the department.</b>	<b>(BC=3)</b>	<b>BADM 2260-3</b> <b>(45-0) 15 weeks</b> <b>Introduction to Corporate Finance</b> 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. <b>Prerequisite: FINS 1150 and ACCT 1001/2001 or 1602, or consent of the Donald School of Business</b> <b>Note: Designed for second year Business Administration students</b>	<b>(BC=3)</b>
<b>BADM 2241-3</b> <b>(45-0) 15 weeks</b> <b>Marketing Communications</b> Emphasis on the concepts and components of integrated marketing communications (IMC) and the management of strategic and creative components involved in developing effective marketing communication campaigns. Understanding of target audience behavior, communication theories and communication effectiveness concepts will be examined.	<b>(BC=3)</b>	<b>BADM 2253-3</b> <b>(45-0) 15 weeks</b> <b>Project Management</b> 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.	<b>(BC=3)</b>	<b>BADM 2261-3</b> <b>(45-0) 15 weeks</b> <b>Financial Management</b> 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. <b>Prerequisite: BADM 2260</b>	<b>(BC=3)</b>
<b>BADM 2242-3</b> <b>(45-0) 15 weeks</b> <b>Marketing Research</b> 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.	<b>(BC=3)</b>	<b>BADM 2254-3</b> <b>(45-0-0) 15 weeks</b> <b>Organizational Learning and Development</b> Provides students with the theoretical concepts as well as practical skills for assessing, designing and developing learning initiatives from a broader organizational and strategic perspective. Provides an overview to strategic learning and development, assessment of learning and development interventions, and assessment of individual and organizational performance.	<b>(BC=3)</b>	<b>BADM 2262-3</b> <b>(45-0) 15 weeks</b> <b>Investments</b> 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. <b>Prerequisite: ACCT 2001 or 1602</b>	<b>(BC=3)</b>
<b>BADM 2243-3</b> <b>(45-0) 15 weeks</b> <b>Marketing Surveys</b> Marketing survey theory and skills. Research project, including designing and administering a questionnaire and tabulating and evaluating the project. Group and individual work. <b>Prerequisite: BADM 2242</b>	<b>(BC=3)</b>	<b>BADM 2256-3</b> <b>(45-0-0) 15 weeks</b> <b>Compensation and Benefits</b> Provides a comprehensive framework for the development of compensation strategy and compensation systems by organizations. Topics include job evaluation, compensation surveys, performance pay, stock and profit sharing plans, and employee benefits plans.	<b>(BC=3)</b>	<b>BADM 2270-3</b> <b>(45-0) 15 weeks</b> <b>Business Integration</b> Integration of learning from other courses in the Business Administration program 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. <b>Prerequisite: Completion of all first year Business Administration and/or Financial Services diploma courses</b> <b>Prerequisite or Corequisite: BADM 2260 or BUS 310</b> <b>Note: Not eligible for challenge or Advanced Standing.</b>	<b>(BC=3)</b>
<b>BADM 2247-3</b> <b>(45-0) 15 weeks</b> <b>Retail Management</b> 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.	<b>(BC=3)</b>	<b>BADM 2258-3</b> <b>(45-0-0) 15 weeks</b> <b>Recruitment and Selection</b> Design and implement strategic recruitment and selection initiatives. Analyze and develop job requirements, consider legal issues, and utilize effective hiring and training methods.	<b>(BC=3)</b>		
<b>BADM 2249-3</b> <b>(45-0) 15 weeks</b> <b>Events Management</b> 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.	<b>(BC=3)</b>				

**BADM 2280-3** (BC=3)  
(45-0) 15 weeks  
**Labour 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.

**BADM 2285-3** (BC=3)  
(45-0) 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 2290-3** (BC=3)  
(45-0) 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 2.5

## Chemistry

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

**CHEM 1203-3** (BC=4)  
(45-15-22.5) 15 weeks  
**Introductory University Chemistry I**  
The first introductory-level chemistry course that focusses on the foundations of atomic properties and chemical reactions. Topics include: stoichiometry, reactions and titrations, ideal gases, atomic structure and bonding, chemical equilibrium, and acids and bases.  
**Prerequisite:** Chem 30 or equivalent, Math 30-1  
**Corequisite:** MATH 1202 (MATH 1203 or MATH 1212)  
**Note:** For Engineering students only

**CHEM 1205-3** (BC=4)  
(45-15-22.5) 15 weeks  
**Introductory University Chemistry II**  
The second introductory-level chemistry course that further expands upon the foundations of various chemical reactions and systems by discussing their equilibrium and reaction rates. Topics include: buffers, titration curves, solubility and complex ion equilibria, thermodynamics and thermochemistry, chemical kinetics, and electrochemistry.  
**Prerequisite:** CHEM 1203  
**Corequisite:** MATH 1204 or 1213  
**Note:** For Engineering students only

**CHEM 1211-3** (BC=4)  
(45-15-45) 15 weeks  
**General Chemistry I**  
Introduction to the discipline and essential concepts of chemistry focusing on stoichiometry, reactions and titrations, ideal gases, atomic structure and bonding, chemical equilibrium, and acids and bases.  
**Prerequisite:** Chem 30 and Math 30-1

**CHEM 1212-3** (BC=4)  
(45-15-45) 15 weeks  
**General Chemistry II**  
Continued introduction to the discipline and essential concepts of chemistry focusing on buffers, titration curves, solubility and complex ion equilibria, thermodynamics and thermochemistry, chemical kinetics, and electrochemistry.  
**Prerequisite:** Chem 1211

**CHEM 2311-3** (BC=4)  
(45-0-60) 15 weeks  
**Quantitative Analysis I**  
Apply experimental principles and methods focusing on solution equilibria, titrimetry, volumetric laboratory skills, evaluation of experimental data, and the use of organic and inorganic analysis.  
**Prerequisite:** CHEM 1212

**CHEM 2351-3** (BC=4)  
(45-15-45) 15 weeks  
**Organic Chemistry I**  
An introduction to the chemistry of carbon compounds focusing on the molecular structure, nomenclature, reactions, reaction mechanisms and stereochemistry of hydrocarbons, and some functional groups including haloalkanes, alcohols, thiols, ethers and epoxides. Introduction to the use of important organic compounds related to industry, agriculture and everyday purposes.  
**Prerequisite:** CHEM 1211

**CHEM 2352-3** (BC=4)  
(45-15-45) 15 weeks  
**Organic Chemistry II**  
Examination of nomenclature, physical properties, stereochemistry, synthesis and reaction of aldehydes ketones, carboxylic acids and derivatives, carbohydrates, amino acids, proteins and amines. Study of the chemistry of biomolecules. Use of spectroscopic tools. Exploration of the industrial, environmental and biological implications.  
**Prerequisite:** CHEM 2351

## Classics

**CLAS 1209-3** (BC=3)  
(45-0) 15 weeks  
**Ancient Greece and Rome**  
For description, see under HISTORY courses.

**CLAS 2320-3** (BC=3)  
(45-0) 15 weeks  
**Roman History**  
For description, see under HISTORY courses.

## Communications

**COMM 1150-3** (BC=3)  
(45-0-0) 15 weeks  
**College and Workplace Writing**  
Practice fundamental writing skills with an emphasis on grammar, basic business correspondence, and short reports for business or college.  
**COMM 1150 is accepted as a prerequisite for COMM 1250.**

**COMM 1210-3** (BC=3)  
(45-0-0) 15 Weeks  
**Communication for Creative Arts**  
Learn to prepare effective professional communication in the creative arts. Focus on mechanics, style, tone, and organization of messages, including reviews of current media, employment documents, social media profiles, and oral presentations.

**COMM 1250-3** (BC=3)  
(45-0-0) 15 weeks  
**Business and Workplace Writing**  
Learn theory and practice of writing for business and workplace environments. Emphasis on mechanics, style, tone and organization of communications, including research reports, memos, letters, business proposals and resumes.  
**Prerequisites:** COMM 1150, or ELA 30-1 or equivalent with 50% or greater, or ELA 30-2 or equivalent with a grade of 65% or greater



**COMM 1271-3** (BC=3)  
 (45-0-15) 15 weeks  
**Introduction to Communication Theory**  
 Examine key theoretical areas within Communication Studies, with focus on how communication can serve as an agent of social and cultural change. Major topics include rhetoric, language, mass media, cultural studies, interpersonal and oral communication, and organizational communication.  
**Prerequisite:** ELA 30-1 or equivalent, or enrollment in MSPC program

**COMM 2313-3** (BC=3)  
 (45-0-0) 15 weeks  
**Communication Research Methods**  
 Examine academic and practical communication research methods. Practice basic application of various qualitative and quantitative methods. Explore the connections between research methods and theoretical approaches of communication and knowledge production. Consider the ethical implications research methods.

**COMM 2321-3** (BC=3)  
 (45-0-0) 15 weeks  
**Special Topics in Communications**  
 Focus on trends, theory, and/or the practice of communications and media studies. Topics will vary. Sample topics might include organizational communication, risk communication, health communication.

**COMM 2341-3** (BC=3)  
 (45-0-0) 15 weeks  
**New Media and Society**  
 Study the implications of new media for everyday life and broader social, cultural, political, and economic change using various theories. Discuss the historical, ethical and legal implications of new media. Explore concepts of participatory culture, creative industries, surveillance, and governance.  
**Prerequisite:** ELA 30-1 or equivalent, or enrollment in MSPC program

**COMM 2363-3** (BC=3)  
 (45-0-0) 15 weeks  
**Professional and Technical Communication**  
 Learn the best practices of professional and technical communication, using various written media. Examine how organizational culture and audience expectations shape communication in workplace contexts. Plan, prepare and deliver professional and technical information in support of an organization's communications goals.

**COMM 2369-3** (BC=3)  
 (45-0-0) 15 weeks  
**Classical Persuasion**  
 Understand how the ideas of Aristotle and other theorists apply to communication 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.

**COMM 2371-3** (BC=3)  
 (45-0-0) 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 changes lives, what makes a book or TV show a success, what forces affect the images, and what makes Canadian media unique.

**COMM 2375-3** (BC=3)  
 (45-0-0) 15 weeks  
**Mass Communication in Canada**  
 Examine the role of mass media in Canadian society including television, film, music, print, and new technologies. Focus on the historical development, policies, financial issues, and audience reception of media in Canada. Consider Canadian mass media in a global context and in relation to the United States.  
**Prerequisite:** ELA 30-1 or equivalent, or enrollment in MSPC program

**COMM 2381-3** (BC=3)  
 (45-0-0) 15 weeks  
**Communication History**  
 Examine the development of major communication systems throughout history and the social contexts in which they emerged. Learn about technological advancements and apply theory to understand how these advancements have shaped and reflected social organization and everyday life.  
**Prerequisite:** ELA 30-1 or equivalent, or enrollment in MSPC program

**COMM 2383-3** (BC=3)  
 (45-0-0) 15 weeks  
**Introduction to Public Relations**  
 Examine the theory and practice of public relations, focusing on the Canadian context. Consider the history and development of public relations and various professional roles in public relations. Explore key public relations tools and tactics, such as social media, traditional media, digital communications, news releases, and other written documents. releases, backgrounders, press kits, PR plans and speeches.  
**Prerequisite:** ELA 30-1 or equivalent, or enrollment in MSPC program

**COMM 2001-3** (BC=3)  
 (45-0-0) 15 weeks  
**Intercultural Competency and Communication**  
 Recognize cultural differences, according to theoretical dimensions of culture, and progress through stages of intercultural competence. Develop awareness, knowledge, and sensitivity in relation to cultural biases, stereotypes and other adversities. Evaluate impact of cultural diversity. Demonstrate strategies for effective communication across cultures.

## Computing Programming

**CPRO 1001-3** (BC=1)  
 (15-0-0) 15 weeks  
**Job Search and Success**  
 Conduct a job search utilize social media, perform in behavioural interview and develop successful work strategies.

**CPRO 1011-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Communication in the Workplace**  
 Practice professional communications by producing, revising, and editing short business documents and engaging in verbal interactions and presentations. Explore equity and inclusion and the connection to ethical and professional conduct.

**CPRO 1101-3** (BC=3)  
 (45-0-0) 15 weeks  
**Front-End Web Development 1**  
 Use modern web technologies to create, format, design, and publish webpages.

**CPRO 1102-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Front-End Web Development II**  
 Implement JavaScript and JQuery, facilitate data exchange over networks, and use APIs to enhance web pages.  
**Prerequisites:** CPRO 1101, CPRO 1121, CPRO 1201

**CPRO 1121-3** (BC=3)  
 (45-0-0) 15 weeks  
**Problem Solving and Program Logic**  
 Develop software solutions using pseudocode and flowchart software tools with an emphasis on problem solving and structured programming techniques.  
**Prerequisite:** CPRO 1201

**CPRO 1122-3** (BC=3)  
 (45-0-0) 15 weeks  
**General Mathematics**  
 Explore topics in arithmetic, algebra, linear graphics, measurement, and statistics using a problem-solving approach.



**CPRO 1201-3** (BC=4)  
 (45-0-15) 15 weeks  
**Python Programming I**  
 Design, test, debug programs, control the flow of a program, implement array processing, and develop programs that process data from files using Python programming and language.  
 Prerequisite: CPRO 1121

**CPRO 1211-3** (BC=4)  
 (45-0-1) 15 Weeks  
**Programming C#.NET**  
 Apply C# programming language to create, test, and debug programs. Control program flow, formulate object-oriented designs and create objects including strings and arrays.  
 Prerequisite: CPRO 1121, CPRO 1201

**CPRO 1221-3** (BC=4)  
 (45-0-15) 15 Weeks  
**Programming Java SE**  
 Apply Java object-oriented programming language to develop solutions, work with single and multidimensional data, create programs, and build applications.  
 Prerequisites: CPRO 1121, CPRO 1201

**CPRO 1301-3** (BC=4)  
 (45-0-15) 15 weeks  
**Database Design and SQL**  
 Explore relational database design and Structured Query Language (SQL) to construct models, modify database objects, and develop database applications.

**CPRO 1302-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Database Programming**  
 Explore SQL and PL/SQL database programming as it relates to the Oracle database environment to create PL/SQL blocks, create stored procedures, create packages, and implement database triggers.  
 Prerequisites: CPRO 1121, CPRO 1201, CPRO 1301

**CPRO 2011-3** (BC=3)  
 (45-0-0) 15 weeks  
**Workplace Teams**  
 Practice workplace interactions and workplace etiquette. Explore topics of justice, equity, diversity, and inclusion and how they apply to workplaces. Study business applications and social media platforms and how they interact in a business environment.  
 Prerequisite: CPRO 1011

**CPRO 2101-3** (BC=3)  
 (45-0-0) 15 weeks  
**Full Stack JavaScript**  
 Design and implement component-based web applications using JavaScript and JavaScript frameworks. Explore MERN (MongoDB, Express, React, Node) web stack.  
 Prerequisites: CPRO 1102, CPRO 1301

**CPRO 2201-3** (BC=4)  
 (45-0-15) 15 weeks  
**Python Programming II**  
 Develop applications using Object-Oriented Python, access databases with Python, and use Python libraries and frameworks.  
 Prerequisites: CPRO 1121, CPRO 1201, CPRO 1301

**CPRO 2211-3** (BC=4)  
 (45-0-15) 15 weeks  
**Web Applications Using C#.NET**  
 Apply C# programming language with an introduction to ASP.NET to implement web applications, build web applications that interface with databases, manage project dependencies and test applications.  
 Prerequisites: CPRO 1301, CPRO 1102, CPRO 1211

**CPRO 2221-3** (BC=4)  
 (45-0-15) 15 weeks  
**Programming Java EE**  
 Manage databases using Java, build client-server applications, and refine industry-standard coding practices to build a complete Web-based application.  
 Prerequisites: CPRO 1102, CPRO 1301, CPRO 1221

**CPRO 2501-3** (BC=3)  
 (45-0-0) 15 weeks  
**Software Design and Development**  
 Plan, develop, deploy, and maintain software using application lifecycle management tools and approaches.  
 Prerequisites: CPRO 1121, CPRO 1201, CPRO 1301

**CPRO 2601-3** (BC=4)  
 (60-0-0) 15 weeks  
**Cloud Computing**  
 Explore the concepts and technologies necessary for working effectively with a cloud environment.  
 Prerequisites: CPRO 1302, CPRO 2211

**CPRO 2602-3** (BC=4)  
 (60-0-0) 15 weeks  
**Cybersecurity**  
 Assess vulnerabilities and threats in computer systems and networks. Explore security measures and technologies for protecting organizations.  
 Prerequisites: CPRO 2211, CPRO 2101

**CPRO 2901-3** (BC=3)  
 (45-0-0) 15 weeks  
**Capstone I**  
 Explore the fundamental principles for successful management of projects by analyzing the project management landscape and using project management software to plan a final project.  
 Prerequisite: 30 credits in CPRO

**CPRO 2902-3** (BC=3)  
 (45-0-0) 15 weeks  
**Capstone II**  
 Complete the final projects, based on the proposal.  
 Prerequisites: CPRO 2901, CPRO 2501

## Computing Science

**CMPT 1201-3** (BC=4)  
 (45-45) 15 weeks  
**Introduction to Programming**  
 Introduction to the theory and application of computer programming. Explore programming languages, algorithms, and logic in a lab and class setting.

**CMPT 1261-3** (BC=3)  
 (45-0-45) 15 weeks  
**Introduction to Computing**  
 Introduction to computers and practical application of software. This course will provide a comprehensive foundation of computer literacy in support of university-level study.

## Creation

**CREA 1110-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Storytelling I**  
 Analyze how fictional stories and narratives work in a variety of media. Learn story basics through an introduction to archetypal stories and myth, basic structure and arcs, and examine different aspects of plot and character. Examine how different media and interfaces influence the ways in which stories are told.  
 Prerequisite: Comm 1210

**CREA 2001-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Creative Think Tank**  
 Explore and develop creativity as a growth mindset skill and process. Investigation of the cultivation of resiliency, determination, empathy, problem solving, creative communication, and creative, innovative, and design thinking, as well as other aspects of creative development and output.

## Culinary Arts

### **CULI 1100** (BC=5) (60-0-15) 15 days

#### **Kitchen Fundamentals and Safety**

Introduces fundamental skills required of a cook. Focuses on terminology, basic kitchen math, weights and measures, food safety and sanitation, tools, and equipment.

### **CULI 1101** (BC=4) (30-0-60) 18 days

#### **Integrated Food Services**

Prepare and serve breakfast dishes, fruits and vegetables, starches, dairy, sandwiches, salads, and dressings in a lab-based context. Organize activities to meet service schedules. Emphasizes punctual attendance and daily practical performance relating to customer service.

### **CULI 1102** (BC=4) (30-0-45) 15 days

#### **Meat Preparation and Saucier I**

Learn to purchase and prepare proteins. Focus on anatomy, butchery, cooking, holding, and serving. Prepare stocks, soups, stews, gravies, and sauces from bones and by-products.

### **CULI 1103** (BC=4) (30-0-45) 15 days

#### **Bakeshop Production I**

Analyze bakeshop ingredients, their chemical reactions, and how they are skillfully applied to the production of yeast products, cookies, quick breads, pies, fillings and basic desserts.

### **CULI 1104** (BC=2) (30-0-0) 15 weeks (1-2 hours a week)

#### **Workplace Preparation**

Develop the communication skills necessary for attaining, maintaining, and advancing in a career in the food service and hospitality industry.

### **CULI 1105** (BC=2) (25-0-0) 5 days

#### **Management Controls and Nutrition**

Develop skills related to kitchen management controls, purchasing, nutrition, and menu planning for special diets.

### **CULI 1106** (BC=6) (30-0-85) 23 days

#### **Integrated Lunch Service**

Develop skills related to intermediate line cooking, buffets, and plate service in a dining room setting, meeting the needs of customers. Emphasis is on vegetables, salads, hors d'oeuvres, appetizers, pastas and their sauces.

### **CULI 1107** (BC=5) (30-0-70) 20 days

#### **Meat Preparation and Saucier II**

Expand knowledge and skills in meat, poultry, and fish and seafood cookery. Build on prior learning from Meat Preparation and Saucier I. Develop skills related to soup and sauce preparation.

### **CULI 1108** (BC=4) (30-0-45) 15 days

#### **Bakeshop Production II**

Expand knowledge and skills related to the preparation of cakes, icings, fillings, puff pastry, custards and pâte à choux. Build on prior learning from Bakeshop Production I.

### **CULI 2100** (BC=9) (15-480-0) 12-15 weeks

#### **Industry Work Placement**

Participate in interviews with prospective employers and gain work experience in a professional kitchen. Required time of 480 hours industry experience.

### **CULI 2101** (BC=6) (75-0-4) 15 days

#### **Advanced Management Skills**

Analyze management techniques required to run a kitchen and dining room brigade, including managing human resources. Develop a palate for pairing food with beer, spirits, and wine, and create menus.

### **CULI 2102** (BC=4) (30-0-60) 18 days

#### **Integrated Dinner Service**

Develop skills related to advanced evening dining menu service and plating techniques. Apply techniques around sausage, pâté, terrines, and galantines.

### **CULI 2103** (BC=4) (30-0-45) 15 days

#### **Meat Preparation and Saucier III**

Advanced study of the hot kitchen. Emphasis on cooking finer proteins and preparing specialty soups, sauces, and condiments.

### **CULI 2104** (BC=4) (30-0-45) 15 days

#### **Bakeshop Production III**

Advanced study of baked, custard-based, and frozen desserts, focusing on presentation and garnishing techniques.

## Dance

See listings under "Kinesiology and Sports Studies," page 35.

## Drama

### **DRAM 1201-3** (BC=3) (45-0) 15 weeks

#### **Play Analysis**

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

### **DRAM 1202-3** (BC=3) (45-0) 15 weeks

#### **Introduction to Theatre Art**

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

### **DRAM 1249-3** (BC=3) (15-75) 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.

## Early Childhood Education Leadership Development Certificate

### **ECEL 3001-4** (BC=4) (25-0-100) 5 weeks

#### **Leading in Context**

Examine current and emerging issues that impact the context of children, families, and educators. Emphasis is on the context of diversity, inclusion, culture, social justice, mental health, and wellness. Explore conflict resolution and collaborative problem-solving strategies and practices.

### **ECEL 3002-4** (BC=4) (25-0-100) 5 weeks

#### **Ethics, Advocacy and Professionalism**

Analyze ethical practices in the Early Learning and Child Care profession. Explore the role of advocacy and the responsibility an early childhood leader embodies. Examine professionalism and the current contexts that influence a leader in the Early Learning and Child Care profession.

### **ECEL 3003-4** (BC=4) (25-0-100) 5 weeks

#### **Organizational Leadership**

Interpret current organizational leadership practices, theories, and concepts that support the role of the leader within the Early Learning and Child Care profession. Identify ways of developing a positive team, environment, and working culture while maintaining balance and boundaries.

**ECEL 3004-4** (BC=4)  
(25-0-100) 5 weeks  
**Human Resource Management**  
Examine basic concepts and relevant legislation relating to Human Resources for the Early Learning and Child Care organization. Develop practices, policies, and plans that combine theory, organizational philosophy, legislation, and trends in the Early Learning and Child Care workforce to support and engage human resources throughout the employee life cycle.

**ECEL 3005-4** (BC=4)  
(25-0-100) 5 weeks  
**Business Operations**  
Explore a variety of business practices for the Early Learning and Child Care organization. Explore different business structures and the basics of financial practices, financial statements, presentations of financial data, and raising capital. Analyze how an organizations' policies and procedures adhere to relevant regulations and organizational philosophy.

**ECEL 3006-4** (BC=4)  
(25-0-100) 5 weeks  
**Family and Community Relationships**  
Examine partnerships between child care centres and families, stakeholders, and community-based organizations. Explore communication within programs and outside of them. Evaluate safe and ethical use of technology. Recognize and celebrate diverse family units.

**ECEL 3007-4** (BC=4)  
(25-0-100) 5 weeks  
**Learning Environments and Curriculum**  
Evaluate Early Learning and Child Care environments for responsive design for diversity and inclusion. Consider current health and safety policies and regulations for effective environments. Exploration of leading curriculum frameworks, current practices, alignment with curriculum, and emerging play issues will define and support professional practice.

**ECEL 3008-4** (BC=4)  
(25-0-100) 5 weeks  
**Pedagogical Leadership**  
Examine current pedagogical leadership practices, theories, and concepts that support the role of the leader within the ELCC profession. Explore pedagogical leadership styles and analyze their influences and impact on ELCC practices. Identify ways of developing responsive learning environments and pedagogy based on child development knowledge within multiple cultural contexts.

## Early Learning and Child Care

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

**ELCC 1201-3** (BC=3)  
(45-0-0) 15 weeks  
**Foundations of Early Learning and Child Care**

Introduction to the characteristics and roles of Early Learning and Child Care professionals in various program settings. Emphasis on regulations and current issues on quality child care as well as health, nutrition, and safety information and implications for practice. Anti-bias curriculum, relationships with families, and child maltreatment are explored.

**ELCC 1206-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to Special Needs**  
Explore development of children with special needs from prenatal to age 12, focusing on various types of exceptionalities. The course includes attitudes, trends, issues, and strategies employed when caring for children with special needs.

**ELCC 1210-4** (BC=4)  
(60-0-0) 15 weeks  
**Practicum I**  
This practicum provides students with the opportunity to interact in an early learning setting while practicing and developing observational skills. Students demonstrate professional attitudes and dispositions through the integration of course theories into practice, capturing this integration in their documentation.  
**Prerequisite:** Completion or enrolment in 4th ELCC certificate course.

**ELCC 1211-3** (BC=3)  
(45-0-0) 15 weeks  
**Child Development**  
Focus on human development and learning essential to working with children (ages 0-12). Apply theory to educational practice to provide appropriate learning opportunities that support diverse children's educational, physical, cognitive, social, cultural, moral, and psychological development. Observe and document child development.

**ELCC 1212-3** (BC=3)  
(45-0-0) 15 weeks  
**Play and Documentation**  
Introductory planning course for ages 0-12 years focusing on play theories and issues across all program types. Emphasis on time, materials, and the role of play in children's learning, care, and development. Observation and documentation skills to support emergent planning.

**ELCC 1213-3** (BC=3)  
(45-0-0) 15 weeks  
**Interpersonal Relations**  
An introduction to self-understanding and self-acceptance as the basis of a professional's ability to understand and value others. Gain knowledge of how communication strategies and skills influence practice.

**ELCC 1215-3** (BC=3)  
(45-0-0) 15 weeks  
**Literacies and Dramatic Play**  
A focus on emergent literacy and dramatic play. Identification of quality literature and fostering language development in children. Planning and providing dramatic play experiences and story sharing strategies.

**ELCC 1217-3** (BC=3)  
(45-0-0) 15 weeks  
**Guiding Behavior**  
Practical information and application of appropriate guidance strategies to help develop children's social-emotional behavior. Develop collaborative relationships with families.

**ELCC 1218-3** (BC=3)  
(45-0-0) 15 weeks  
**Responsive Experiences**  
Planning for a variety of responsive play experiences including construction, manipulatives, physical play, music, and outdoor play.

**ELCC 1220-4** (BC=4)  
(60-0-0) 15 weeks  
**Practicum II**  
This practicum provides students with the opportunity to interact in an early learning setting emphasizing programming for and responding to children based on observations of children's needs and interests. Students demonstrate how foundational knowledge informs their daily practice, capturing this bridging in their documentation.  
**Prerequisite:** ELCC 1210 and completion or enrolment in 8th ELCC certificate course.

**ELCC 2305-3** (BC=3)  
(45-0-0) 15 weeks  
**School-Age Care Studies**  
Focus on children ages six through 12 years. Regulations and administration of school age care programs while providing quality experiences that are responsive to learning, play, care, and development. Comprehensive program planning for middle childhood.

**ELCC 2308-3** (BC=3)  
(45-0-0) 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.

**ELCC 2309-3** (BC=3)  
(45-0-0) 15 weeks  
**Indigenous Ways in ELCC**  
This course will examine indigenous ways of knowing, doing and being based upon Indigenous worldviews, perspectives and practices historically, traditionally and contemporarily. Focus on strengthening relationships, deepening knowledge and enhancing skills for learning, caring and working in partnership with Indigenous children, families and communities.  
**Prerequisite:** Completed ELCC Certificate requirement.

**ELCC 2310-5** (BC=5)  
(75-0-0) 15 weeks  
**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 2310 between the fourth and seventh courses. Consent of the Associate Dean is required for atypical registration requests.  
**Prerequisite:** Early Learning and Child Care Certificate or consent of Associate Dean  
**Note:** This course will be evaluated using a credit (pass)/ non-credit (fail) grading system.

**ELCC 2315-3** (BC=3)  
(45-0-0) 15 weeks  
**Program Administration**  
Application of leadership and mentorship practices in Early Learning and Child Care programs. Exploration of administrative roles, human resources, policies, regulations and advocacy. Professionalism will be explored through self-awareness, self-evaluation, and reflective practice.  
**Prerequisite:** Completed ELCC Certificate requirements

**ELCC 2317-3** (BC=3)  
(45-0-0) 15 weeks  
**Creative Play Perspectives**  
Expanding experiences in creativity, the arts, music, and creative movement in early childhood. Examination of emergent literacy approaches and the qualities of responsive environments as learning, care, play, and development are considered.  
**Prerequisite:** Completed ELCC Certificate requirements

**ELCC 2320-5** (BC=5)  
(75-0-0) 15 weeks  
**Practicum IV**  
This practicum provides the opportunity for practical experience designing and implementing learning environments for young children in a diverse range of community programs, extending the objectives of first year practicums. Students compose a personal philosophy of the ELCC profession and its application into intentional and reflective professional practice.  
**Prerequisite:** Completed ELCC Certificate, ELCC 2310 and completion or enrolment in 8th ELCC diploma course

**ELCC 2321-3** (BC=3)  
(45-0-0) 15 weeks  
**Family Studies**  
Focus on the family as a social system and the influence of family on a child. Various family forms, and the specific organization, functions, dynamics, and influences on individual family members are discussed. Specific attention is given to the intersection of family experiences and stressors.  
**Prerequisite:** Completed ELCC Certificate requirements

**ELCC 2323-3** (BC=3)  
(45-0-0) 15 weeks  
**Responsive STEM Environments**  
Exploring early learning and care philosophies and frameworks. Planning for holistic, responsive environments with a focus on math, science and numeracy. Strategies for family and community involvement and partnerships. Skills for assessing programs and pedagogical documentation are expanded.  
**Prerequisite:** Completed ELCC Certificate requirements

**ELCC 2325-3** (BC=3)  
(45-0-0) 15 weeks  
**Designing for Special Needs**  
Learning and care of children with special needs in quality environments. Exploration of inclusion, considerations in the provision of care for children with special needs, and strategies to help children reach their potential. Emphasis on collaboration with families and other professionals in responsive care.  
**Prerequisite:** Completed ELCC Certificate requirements

**ELCC 2327-3** (BC=3)  
(45-0-0) 15 weeks  
**Infant and Toddler Studies**  
Focus on prenatal to 36 month development including attachment theory, brain, and language development. Influences that impact development are explored. Comprehensive program planning for infant and toddlers is addressed based on child's unique characteristics.

**ELCC 2329-3** (BC=3)  
(45-0-0) 15 weeks  
**Trauma Sensitive Practices**  
Develop practices grounded in relationships that examine the fundamentals of trauma-sensitive practices, the nature of and responses to trauma experiences. Develop awareness of diverse interpretations of these experiences and the power of resilience to influence learner success. Exploration of self-reflection, self-care, and affect management while considering scope of practice.  
**Prerequisite:** Completed ELCC Certificate requirements

## Earth and Atmospheric Sciences

**EAAS 201-3** (BC=4)  
(45-0-45) 15 weeks  
**Planet Earth**  
An introduction to the origin and evolution of the Earth in terms of its major systems: rock materials, atmosphere/climate, hydrology, oceans, ice, life and human interactions

## Economics

**ECON 1100-3** (BC=3)  
(45-0-0) 15 weeks  
**Business Macroeconomics**  
Describe current terminology, concepts, theory and limitations of microeconomics. Utilize graphical analysis to describe market demand and supply, and elasticities. Calculate and show profit maximization and cost minimization functions of the firm. Recognize market structure of Perfect Competition, Monopoly, Monopolistic Competition, and Oligopoly. Discuss market failures.  
**Antirequisite:** ECON 1201  
**Equivalent:** ECON 100

**ECON 1101-3** (BC=3)  
(45-0-0) 15 weeks  
**Business Macroeconomics**  
Calculate and compare economic indicators, such as inflation, unemployment, and economic growth, to analyze the overall performance of economies. Explore how monetary and fiscal policy can be used to achieve macroeconomic goals.  
**Antirequisite:** ECON 1202  
**Equivalent:** ECON 101



**ECON 1201-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to Microeconomics**  
Examine scarcity and choice, specialization, markets, and exchange. Analyze supply and demand. Examine roles of consumers, firms and resource owners in competitive and monopolistic markets. Consider international trade, government intervention, Emphasis is on Canadian problems, issues, policies, and institutions.  
**Antirequisite:** ECON 1100

**ECON 1202-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to Macroeconomics**  
Measure aggregate economic variables. Analyze national income and monetary theory. Examine monetary and fiscal policies. Analyze unemployment and inflation, exchange rates and balance of payment. Emphasis is on the Canadian economy.  
**Prerequisite:** ECON 1201  
**Antirequisite:** ECON 1101

**ECON 2311-3** (BC=3)  
(45-0-0) 15 weeks  
**Economic Issues in the World**  
Discover how economic theories shed light on current issues and problems in Canadian society and the larger world. Introduce tools to analyze contemporary issues through the lens of economic thinking and explore how economic theories can tie to creating, exacerbating, resolving, and solving social and public policy issues.

**ECON 2323-3** (BC=3)  
(45-0-0) 15 weeks  
**International Economics**  
Examine international trade theories and policies. Analyze gains from exchange and specialization, international factor movements, theory of tariff and non-tariff barriers, exchange rates, balance of payments, and international debt.  
**Prerequisite:** ECON 1201 and 1202

**ECON 2327-3** (BC=3)  
(45-0-0) 15 weeks  
**International Money and Finance**  
This course examines international monetary theory, policy and applications. Topics include: balance of payments, the role of money and relative interest rates, exchange rate models/regimes and their effect on price levels and output, international investment and global capital markets, currency crises, the international financial architecture, including the role of the World Bank and the International Monetary Fund (IMF). This course emphasizes current applications, policy development, as well as the institutional framework underlying the interaction between nations.  
**Prerequisite:** ECON 1100 and 1101 or ECON 1201 and 1202 or consent of the Donald School of Business  
**Note:** Not to be taken if credit received in ECON 2323

**ECON 2331-3** (BC=3)  
(45-0-0) 15 weeks  
**Labour Economics**  
Analyze the labour market using microeconomic principles. Examine the relevant theory, empirical evidence and policy issues, labour supply and labour demand. Analyze the determination of equilibrium wages and employment levels in both competitive and non-competitive labour markets, wage differentials, unions, and discrimination. Emphasis is on the Canadian economy.  
**Prerequisite:** ECON 1201

**ECON 2341-3** (BC=3)  
(45-0-0) 15 weeks  
**Money and Banking**  
Analyze nature and functions of money, money creation process. Examine financial markets and financial intermediation, industrial structure and regulation in Canadian banking. Analyze monetary theory, central banking and monetary policy, and international finance.  
**Prerequisite:** ECON 1100 and ECON 1101 or ECON 1201 and ECON 1202 or consent of the department

**ECON 2381-3** (BC=4)  
(45-0-15) 15 weeks  
**Intermediate Microeconomics**  
Examine economic decision making of consumers and businesses through analysis of consumer behaviour theory and theory of production and pricing strategies. Determine impact of these decisions in external environments and various market structures.  
**Prerequisite:** Math 30-1 and ECON 1201

**ECON 2382-3** (BC=4)  
(45-0-15) 15 weeks  
**Intermediate Macroeconomics**  
Analyze the determination of income, employment prices, interest rates, exchange rates and balance of payments. Examine the impact of supply shocks, fiscal policy and monetary policy.  
**Prerequisite:** ECON 1201 and ECON 1202 or ECON 1100 and 1101 and MATH 30-1 or equivalent

**ECON 3325-3** (BC=3)  
(45-0-0) 15 weeks  
**International Trade**  
This course examines international trade theory, policy and applications. Topics include a brief history of trade, absolute and comparative advantage basis for trade, the Heckscher-Ohlin theory, trade with economies of scale, tariffs, non-tariff trade barriers, political economy of non-tariff barriers, strategic trade policies, trade agreements, role of the World Trade Organization (WTO) and developing economies' trade policies. The course emphasizes current applications, policy development, as well as the institutional framework underlying the interaction between nations.  
**Prerequisite:** ECON 1100 and 1101 or ECON 1201 and 1202 or consent of the Donald School of Business  
**Note:** Not to be taken if credit received in ECON 2323

## Education

These courses are intended for Education students.

**EDPY 1307-3** (BC=3)  
(45-0) 15 weeks  
**Adolescent Development and Learning**  
Application of developmental theory to educational practices through examination of biological and cognitive changes, their influence on social roles, individual differences, current problems, and supports for resiliency. Students reflect on how adolescent development impacts them as teachers. This course is for students intending to work with adolescents (ages 11-17).  
**Note:** Credit cannot be received for both EDPY 1307

**EDUC 1301-3** (BC=3)  
(45-0-0) 15 weeks  
**Interpersonal Relationships**  
Develop effective skills that support positive interpersonal relationships and increase awareness of self and individual communication behaviours. Adapt oral and written communication to suit a variety of situations.

**EDUC 1302-3** (BC=3)  
(45-0-0) 15 weeks  
**Educational Technology**  
Examine frameworks, trends, issues, and futuristic scenarios regarding the role of technology in education. Gain hands-on-experience using technology with emphasis on strategies to integrate it into the curriculum.

**EDUC 1304-3** (BC=3)  
(45-0-0) 15 weeks  
**Inclusive Learning Environments**  
Explore a variety of theoretical frameworks and strategies that establish, promote, and sustain inclusive learning environments.



<b>EDUC 1305-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Child Development</b> Focus on human development and learning essential to working with children (ages 0-18). Apply theory to educational practice to provide appropriate learning opportunities that support diverse children's educational, physical, cognitive, social, cultural, moral, and psychological development.	<b>EDUC 2803-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Language Learning and Literacy</b> Evaluate resources, strategies, and current research, to build an understanding of how literacy skills are developed and supported in an inclusive classroom environment.	<b>EDUC 3806-3</b> (B=3) <b>(45-0-0) 15 weeks</b> <b>Social Studies Education</b> Critically examine research-based instructional strategies to explore the Alberta Social Studies Program of Study and develop the knowledge and skills necessary to effectively plan, assess, and teach social studies to diverse learners in the inclusive learning environments.
<b>EDUC 1500-3</b> (BC=4) <b>(45-0-30) 15 weeks</b> <b>The Teaching Profession</b> Introduction to education and learning with an emphasis on exploring teaching in contemporary society through different contexts and perspectives. Apply strategies and skills to support student learning through authentic experience in K-12 learning environments.	<b>EDUC 2804-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Numeracy</b> Evaluate resources, strategies and current research, to build an understanding of how numeracy skills are developed and supported in an inclusive classroom environment.	<b>EDUC 3807-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Science Education</b> The various components in the Alberta K-12 Science Program of Study will be discussed in this course, along with the wide variety of instructional strategies that can be used to teach the broad spectrum of content, skills, and societal attitudes within science.
<b>EDUC 2312-3</b> (BC=4) <b>(45-0-0) 15 weeks</b> <b>Designing Learning</b> Explore instructional design and assessment by examining and applying different planning frameworks, effective classroom organization and leading students in current learning environments. Through active learning, students gain the knowledge, skills, attitudes, and competencies of a successful teacher. <b>Prerequisite:</b> EDUC 1500	<b>EDUC 2805-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Foundational Knowledge</b> Critically examine and compare various theories, topics, and philosophies in the foundations of education. Explore local and provincial education policy, practice, structure, histories, and trends, in comparison with various international education systems. Introduction to education research methods.	<b>EDUC 3808-3</b> (BC=3) <b>(45-0-0)</b> <b>Arts Education</b> Develop a general understanding of process-based arts subjects (art/dance/drama/music) both as stand-alone disciplines and as opportunities for integration. Students will research the role of the arts in education, then plan, and model arts and art-integrated lessons.
<b>EDUC 2500-3</b> (BC=4) <b>(45-0-30) 15 weeks</b> <b>Social Equity and Inclusion</b> Understand the role of a teacher, and the complexities of leading an inclusive environment, where diversity is embraced and every student is welcomed, cared for, respected, and safe. <b>Prerequisite:</b> EDFD 1002 and EDPR 1004	<b>EDUC 3322-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Assessment in Education</b> Examine the key elements of assessment design and their implications for teaching and learning. Develop effective assessment methods and collect evidence of learning through formative, summative, and feedback processes that are integral to effective instructional design and student learning.	<b>EDUC 3809-3</b> (BC=3) <b>(45-0-0)</b> <b>Health and Physical Education</b> Gain an understanding of foundational knowledge and practical applications to implement Alberta's K-12 Health and Physical Education Programs of Study. Develop strategies and resources to teach health, physical education, wellness, and comprehensive school health.
<b>EDUC 2801-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>English Language Education</b> Examine the Alberta English Language Arts Program of Study with a focus on developing reading, writing, and oral language skills. Through a critical examination of research-based instructional strategies, students develop the knowledge and skills necessary to effectively plan, assess, and teach English language arts in inclusive learning environments.	<b>EDUC 3342-3</b> (BC=3) <b>(45-0-0)</b> <b>Designing Integrated Learning</b> Explore the theoretical and practical aspects of integrated planning, teaching and learning. Learn a variety of ways to construct and integrated curriculum. <b>Prerequisite:</b> EDUC 2312	<b>EDUC 4305-3</b> (BC=3) <b>(45-0-0)</b> <b>Reflective Practice</b> In conjunction with Practicum II Professional Term, students will use their experiences to develop and present an action research project and a professional electronic portfolio, bridging theory into professional practice. <b>Prerequisites:</b> EDUC 3322 and EDUC 3500 <b>Corequisite:</b> EDUC 4500
<b>EDUC 2802-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Mathematics Education</b> Examine the Alberta Mathematics Program of Study with a focus on developing high impact learning experiences and numeracy skills. Through a critical exploration of research-based instructional strategies, students develop the knowledge and skills necessary to effectively plan, assess, and teach mathematics in inclusive learning environments.	<b>EDUC 3500-6</b> (BC=6) <b>(30-0-0) 180 practicum hours 15 weeks</b> <b>Practicum I Legal Frameworks</b> This practicum provides opportunities for students to reflect upon teaching and learning, and to further develop and refine aspects of their teaching practice. The Legal Frameworks seminars review the fundamental legal rights and responsibilities of all stakeholders in Alberta's schools with a focus on the ATA Code of Professional Conduct. <b>Prerequisites:</b> Minimum cumulative Program GPA of 2.0 in all second year required EDUC courses and EDUC 3322.	<b>EDUC 4311-3</b> (BC=3) <b>(45-0-0) 15 weeks</b> <b>Indigenous Ways</b> Examine Indigenous ways of knowing, doing and being, founded upon Indigenous worldviews and perspectives historically, traditionally and, contemporarily. Topics include orality and Indigenous language, governance and lifeways, Indigenous intellectual and cultural traditions, identity and well-being, and lived realities in social, political, economic and environmental contexts in Alberta.

**EDUC 4500-3** (BC=12)  
 (45-0-0) 520 practicum hours 15 weeks  
**Practicum II Professional Term**  
 This practicum provides opportunities for students to further develop and refine aspects of their teaching practice in alignment with the Teaching Quality Standard, while reflecting upon teaching and learning and mindfully bridging theory to practice.  
**Prerequisites:** EDUC 3500, EDUC 3322, and a minimum cumulative Program GPA of 2.0.  
**Corequisite:** EDUC 4305

## Educational Assistant

**EDAS 1111-3** (BC=3)  
 (45-0) 15 weeks  
**Role of the Assistant**  
 Clarification of the roles of the teacher and the educational assistant. Topics include code of conduct, job descriptions, tasks, Alberta Teachers' Association policies, classroom management techniques and positive school climate.

**EDAS 1114-3** (BC=3)  
 (140 hours) 4 full weeks  
**Field Experience**  
 Working as an educational assistant for four weeks. Includes a seminar component. Scheduled after all coursework is complete. This course may satisfy requirements for ELCC 210.  
**Prerequisite:** All courses except the EDAS option(s) must be successfully completed before taking EDAS 1114

**EDAS 1116-3** (BC=3)  
 (45-0) 15 weeks  
**Human Relations**  
 Developing and increasing your understanding of self and others. Interpersonal skills required in supportive roles as a paraprofessional. This course will satisfy requirements for ELCC 213.

**EDAS 1151-3** (BC=3)  
 (45-0) 15 weeks  
**Trends in Inclusive Practice**  
 Attitudes toward and services provided to persons with disabilities throughout history. Current trends and issues in inclusive education. Laws relating to persons with disabilities in the U.S., Canada, and Alberta in particular.

**EDAS 1152-3** (BC=3)  
 (45-0-0) 15 weeks  
**Physical and Emotional Support**  
 Examine diverse physical and behaviour needs, including medical and psychological diagnoses. Explore and apply strategies to support learners in educational settings.

**EDAS 1153-3** (BC=3)  
 (45-0) 15 weeks  
**Fostering Positive Behaviour**  
 Students will review both learning and behaviour management philosophies in order to build a repertoire of effective techniques and strategies that foster positive behaviour change in the classroom.

**EDAS 1154-3** (BC=3)  
 (45-0-0) 15 weeks  
**Neurodevelopmental Support**  
 Identify characteristics and challenges of learners with neurodevelopmental needs. Explore and apply strategies to support learners in educational settings.

**EDAS 1160-3** (BC=3)  
 (45-0) 15 weeks  
**Supporting Students in Literacy**  
 Effective teaching strategies for literacy. 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 1161-3** (BC=3)  
 (45-0) 15 weeks  
**Supporting Students in Numeracy**  
 Numeracy concepts taught at the elementary and junior high school levels. Effective teaching techniques and learning activities to improve children's understanding of numeracy in an educational setting.

**EDAS 1170-3** (BC=3)  
 (45-0-0) 15 Weeks  
**Classroom Technology**  
 Introduction to educational technology used in current classrooms. Through a self-directed format, gain computer literacy skills related to the Educational Assistant role.

**EDAS 1181-4** (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.

## Engineering

**ENCP 1200-3** (BC=3)  
 (45-0-22.5) 15 weeks  
**Computer Programming for Engineers**  
 Fundamentals of computer programming with emphasis on solving engineering problems. Programming in a high level language. Selection and loop structures, routines, arrays and record types, text file operation, pointers.  
**Prerequisite:** Consent of the Department

**ENGG 1200-1** (BC=1)  
 (15-0-0) 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 1203-1** (BC=2)  
 (15-0-30) 15 weeks  
**Introduction to Engineering Design, Communication and Profession**  
 Fundamental design process; communications; team work; the engineering disciplines, career fields; professional responsibilities of the engineer including elements of ethics, stewardship, public and worker safety and health considerations including the context of the Alberta Occupational Health and Safety Act.  
**Corequisite:** ENGL 1201

**ENGG 1230-3** (BC=4)  
 (45-15-30) 15 weeks  
**Engineering Statics**  
 Equilibrium of planar systems. Particle and rigid-body equilibrium. Reduction of a simple distributed loading. Structural analysis, planar trusses and frames. Internal forces. Centre of gravity and centroid. Friction. Moment of inertia.  
**Corequisite:** MATH 1212  
**Note:** Open to Engineering students only

**ENPH 1231-3** (BC=4)  
 (45-22-15)  
**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 1212  
**Note:** Open to Engineering students only

# English

## FIRST-YEAR UNIVERSITY TRANSFER ENGLISH COURSES

Red Deer Polytechnic offers university transfer English courses at the 200 level. These are usually prerequisites for 300-level English courses and for more advanced work in English. The overall objective for all 200-level courses is to develop critical reading skills and composition skills at the university level. Class discussions and instruction in composing academic essays will be combined with practice in critical analysis and self-expression.

### ENGL 1201-3 (BC=3) (45-0-0) 15 weeks **Creative Writing**

Explore creative writing genres such as poetry, fiction, non-fiction, and plays, and develop foundational skills required for constructive criticism of written works. This course cannot be used as a prerequisite for ENGL 1219, 1220, or 300-level English courses.

### ENGL 1212-3 (BC=3) (45-0-0) 15 weeks **English for Engineering Students**

Learn effective written and oral communication skills across academic and professional contexts, including reports, correspondences, and presentations. Develop fundamental composition skills of sentences, paragraphs, and documents. Introduce information gathering, analysis, and citation.

**Note:** Restricted to engineering students.  
**Prerequisite:** ELA 30-1 or equivalent.

### ENGL 1219-3 (BC=3) (45-0-0) 15 weeks **Essay Writing and Critical Reading**

Develop essential university-level writing skills, including foundational research methods and argumentation strategies. Acquire techniques for reading informative and persuasive non-fiction texts analytically and critically.

**Prerequisite:** ELA 30-1 or equivalent

### ENGL 1220-3 (BC=3) (45-0-0) 15 weeks **Literary Analysis**

Explore a range of literary genres while continuing to deepen the required structural and critical skills related to thinking and writing about literature.  
**Prerequisite:** ENGL 1219 or equivalent

## SECOND-YEAR UNIVERSITY TRANSFER ENGLISH COURSES

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

### ENGL 2305-3 (BC=3) (45-0-0) 15 weeks **Children's Literature**

Examine the evolution of children's literature from the 19th century to the present. The literature will include selections from children's fantasy and realist texts as well as literary fairy tales and modern interpretations of older stories.  
**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2306-3 (BC=3) (45-0-0) 15 weeks **Folklore in Children's Literature**

Survey oral materials drawn into modern and past English literature from a range of cultural traditions, including myths (Greek, Norse, Indigenous, Oceania), folktales (Perrault, Grimm, Andersen), legends, poems, and songs, especially emphasizing children's literature. Study thematic, theoretical, and structural elements of folklore.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2312-3 (BC=3) (45-0-0) 15 weeks **Contemporary Canadian Literature**

Discover the literature of English-speaking Canada from 1959 to the present. Examine literature from both critical and historical perspectives, and explore modern and postmodern literary forms. Study authors such as David Chariandy, Michael Ondaatje, Margaret Laurence, and Alice Munro.  
**Prerequisites:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2335-3 (BC=3) (45-0-0) 15 weeks **English Literature Pre-1700**

Discover what makes English literature between the Middle Ages and the 1700s so vibrant. Assess well-wrought literary genres and forms, and explore how writers, both canonical and lesser known, transformed them across centuries. Immerse yourself in poetry, prose, and drama that has truly stood the test of time.  
**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2336-3 (BC=3) (45-0-0) 15 weeks

#### **English Literature Post-1700**

Survey English literature from the year 1700 to the present day, including the major periods of the 18th century, Romanticism, Victorian, Modernism, and Postmodernism.  
**Prerequisite:** 3 credits of 200-level English excluding ENGL 1201 and ENGL 1212

### ENGL 2347-3 (BC=3) (45-0-0) 15 weeks **The Victorian Period**

Examine the development of British literature from 1837-1901. Texts will include fiction, short fiction, poetry and essays from the early, middle, and late Victorian periods. The texts will be read in their historical contexts.

**Prerequisite:** ENGL 1219 and 3 credits of 200 level or above English excluding ENGL 1201 and ENGL 1212

### ENGL 2351-3 (BC=3) (45-0-0) 15 weeks **Poetry Reading and Analysis**

Develop skills of careful reading and analysis of poetry, with special attention to the relationship between form and meaning.  
**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2354-3 (BC=3) (45-0-0) 15 weeks **Topic in Non-Fiction Writing**

Develop and strengthen writing skills for specific rhetorical situations and discourse communities. The course topic varies each year, but may include writing about writing, digital writing, or science writing. The course will expand students' ability to write in various genres and for different audiences.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

### ENGL 2359-3 (BC=3) (45-0-0) 15 weeks **Young Adult Literature**

Examine the emergence of young adult literature as a stage distinct from that of children's literature. Explores issues of gender and ethnicity and consider the appeal of this genre to adults.  
**Prerequisite:** 3 credits of 200 level English excluding ENGL 201 and ENGL 212

### ENGL 2363-3 (BC=3) (45-0-0) 15 weeks **Literary Theory: Texts**

Discover the linguistic and philosophy-based theories that inform contemporary reading of texts, applying them to textual analysis. Theories include: Formalist, Structuralist, Post-Structuralist, Reader-Response, and Psychoanalytic.  
**Prerequisite:** ENGL 1219 and 3 credits of 200-level or above English excluding 1201 and 1212

**ENGL 2364-3 (BC=3)****(45-0-0) 15 weeks****Literary Theory: Contexts**

Discover the cultural theories that inform contemporary reading of texts, applying them to textual analysis. Theories include: Feminist, Marxist, Race/Ethnic Studies, Postcolonial, Cultural.

**Prerequisite:** ENGL 1219 and 3 credits of 200-level or above English excluding ENGL 1201 and ENGL 1212

**ENGL 2366-3 (BC=3)****(45-0-0) 15 weeks****The Short Story**

Examine representative works of short fiction illustrating the traditions of the short story in English, sample contemporary experiments in the short story form, and develop a technical vocabulary appropriate to the study of narrative.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2371-3 (BC=3)****(45-0-0) 15 weeks****Topic in Canadian Literature**

Explore literature of a specific Canadian region, genre, or theme. Discover how geographical, historical, political, and literary contexts inform literature. Study topics such as Ghosts in Canadian Literature, Canadian Poetry, the Canadian Short Story, and Canadian Prairie Writing.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2376-3 (BC=3)****(45-0-0) 15 weeks****Creative Writing Fiction I**

Practice creative writing within the genre of fiction and techniques such as word play, dialogue, narrative shifts, and characterization.

**Prerequisite:** ENGL 1219 and 3 credits of 200 level or above English excluding ENGL 1201 and ENGL 1212

**ENGL 2377-3 (BC=3)****(45-0-0) 15 weeks****Creative Writing Poetry I**

Practice creative writing within the genre of poetry and explore style, technique, poetic form, and the role of the literary artist.

**Prerequisite:** ENGL 1219 and 3 credits of 200 level or above English excluding ENGL 1201 and ENGL 1212

**ENGL 2378-3 (BC=3)****(45-0-0) 15 weeks****Creative Writing Fiction II**

Compose creative writing within the genre of fiction and formulate and assess narrative techniques, style, voice, and character.

**Prerequisite:** ENGL 2376

**ENGL 2379-3 (BC=3)****(45-0-0) 15 weeks****Creative Writing Poetry II**

Compose creative writing within the genre of poetry and formulate and assess poetic techniques, style, voice, and form.

**Prerequisite:** ENGL 2377

**ENGL 2385-3 (BC=3)****(45-0-0) 15 weeks****Indigenous Literature**

Discuss contemporary Indigenous writing in Canada and contrast with similar works from earlier periods and from the United States. Gain perspective of the ways in which oral tradition and the historical, cultural, and political issues that inform the focal texts impact their critical reception.

**Prerequisite:** 3 credits of 200-level English excluding ENGL 1201 and ENGL 1212

**ENGL 2387-3 (BC=3)****(45-0-0) 15 weeks****Topic in Literature and Society**

Investigate 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:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2389-3 (BC=3)****(45-0-0) 15 weeks****Topic in Women's Literature**

Discover writing by women across various geographical regions and time periods. Analyse theoretical approaches to women's literature, and examine literary forms. Study women's literature from different perspectives, themes, historical moments, and genres.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2391-3 (BC=3)****(45-0-0) 15 weeks****Topic in International Literature**

Examine literature written in English outside of Canada, Britain, and the United States. Study writing from a specific region, such as Africa, the Indian Subcontinent, the Caribbean, or Australasia, or in relation to an issue or theme in postcolonial studies. Analyze historical, geographical, political, and literary contexts.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2393-3 (BC=3)****(45-0-0) 15 weeks****Science Fiction**

Discover new and endangered worlds, scientific experiments gone awry, and strange futures as we explore science fiction literature. Analyze the political, social, and philosophical questions that this genre brings to life. Be transformed by a diverse group of authors whose imagined worlds may not be so different from our own.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

**ENGL 2395-3 (BC=3)****(45-0-0) 15 weeks****Topic in Shakespeare**

Explore Shakespeare's writings. Assess the scandals of Shakespeare's oeuvre and of scholarship on him. Debate the political, religious, gendered, and racial implications of the Bard's works in his day and our own. Is "all's well that ends well" or are we chained to our past because "blood will have blood"?

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212. This course may be repeated for credit.

**ENGL 2399-3 (BC=3)****(45-0-0) 15 weeks****Detective Fiction**

Explore the popular genre of detective fiction using selected works from the nineteenth to the early twenty-first century. Examine detective fiction's history and the development of its conventions in relation to historical, social, and both literary and popular cultural contexts.

**Prerequisite:** 3 credits of 200 level English excluding ENGL 1201 and ENGL 1212

## Entrepreneurship and Small Business

**ESB 2204-3 (BC=3)****(45-0-0) 15 weeks****Interpersonal Skills and Leadership**

Explore strategies for effective self-awareness and management. Develop and practice approaches for relationship building, both as peers and leaders. Develop skills in active listening, presentation, conflict management, and communication.

**Prerequisite:** BUS 1010: Business Topics and Skills or by consent of the Associate Dean

**Antirequisite:** BADM 240: Interpersonal Skills

**Equivalent:** BADM 240: Interpersonal Skills



**ESB 2251-3** (BC=3)  
(45-0-0) 15 weeks  
**Innovation and Entrepreneurship**  
Examine the process of business development and idea creation through experiential activities and lessons learned from entrepreneurs.  
**Prerequisite:** BUS 1010: Business Topics and Skills or by consent of the Associate Dean  
**Antirequisite:** BADM 240: Interpersonal Skills  
**Equivalent:** BADM 240: Interpersonal Skills

**ESB 2253-3** (BC=3)  
(45-0-0) 15 weeks  
**Project and Events Management**  
Plan, market, and implement a successful event or project by applying project management and event marketing techniques.  
**Prerequisite:** MKT 1132 or BADM 132 or by consent of the Associate Dean  
**Antirequisite:** BADM 253 and BADM 249  
**Equivalent:** BADM 253 and BADM 249

## Family Studies

**FAM 1315-3** (BC=3)  
(45-0) 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 1322-3** (BC=3)  
(45-0) 15 weeks  
**Human Sexuality**  
An inquiry into the nature of sexual behaviour, its personal and cultural sources and its personal, familial, societal and educational implications. The focus of this class is to prepare future teachers to instruct sexuality education curriculum and to provide background knowledge which will help teachers understand children's growth and development as it pertains to human sexuality.

## Film

**FILM 1201-3** (BC=4)  
(45-0-30) 15 weeks  
**Film Art**  
Introduction to film genre, form, style, production, and theory based on the close study of selected titles from the silent era to the present day. Analyze how the formal elements of films, include mise-en-scene, cinematography, editing, and sound, combine to create meaning.

**FILM 1202-3** (BC=4)  
(45-0-30) 15 weeks  
**Film History**  
Examine the historical development of film, including an introduction to production eras, technological advances, national cinemas, and ideological trends based on the close study of selected titles from the silent era to the present day. Explore the political, social and cultural forces that influence film in different eras.

**FILM 2301-3** (BC=4)  
(45-0-30) 15 weeks  
**Selected Topics in Film Genre**  
Explore 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.  
**Prerequisite:** FILM 1201 or FILM 1202

## Film, Theatre and Live Entertainment

**FTLE 2205-3** (BC=3)  
(45-0-0) 15 Weeks  
**Directing I**  
Examine the aesthetics of devising an artistic endeavour from a director's point of view. Explore the creative process in terms of relationships and responsibilities of key personnel involved in developing a project from idea to exhibition.  
**Prerequisite:** COMM 1210

**FTLE 2210-3** (BC=3)  
(45-0-0) 15 Weeks  
**Storytelling II**  
Further develop writing using basic structure, character, and arcs. Examine different aspects of plot and character for a variety of media. Focus on structure, character and story throughlines. Knowledge used to develop short scripts.  
**Prerequisite:** CREA 1110

**FTLE 2215-3** (BC=3)  
(45-0-0) 15 Weeks  
**Business for Stage and Screen**  
Practical application of core business elements for actors and production students in the entertainment industry.  
**Prerequisite:** COMM 1210

**FTLE 2220-2** (BC=2)  
(15-0-45) 15 Weeks  
**Projects I**  
Project based collaboration and community of practice. Application of creative, practical and communication skills. Development of professional skills and confidence. Building awareness of role and responsibilities within projects of limited scope. With construct and guidance of instructor students will initiate/execute creative ideas and process.

**FTLE 3305-1** (BC=2)  
(15-0-15) 15 Weeks  
**Workshops I**  
Diverse sessions by multiple industry experts focused on knowledge and application of discipline(s) within industry.  
**Prerequisite:** FTLE 2215

**FTLE 3306-1** (BC=2)  
(15-0-15) 15 Weeks  
**Workshops II**  
Diverse sessions by multiple industry experts focused on knowledge and application of discipline(s) within industry.  
**Prerequisite:** FTLE 2215

**FTLE 4405-15** (BC=15)  
(45-0-420) 15 Weeks  
**Applied Practicum I**  
Work related experience: applied research or performance based exercise(s)/ project(s) in stage/screen performance and production.  
**Prerequisite:** Successful completion of all third year courses

**FTLE 4410-15** (BC=15)  
(45-0-420) 15 Weeks  
**Applied Practicum II**  
Work related experience: applied research or performance based exercise(s)/ project(s) in stage/screen performance and production.  
**Prerequisite:** FTLE 4405

## Finance

**FINS 1150-3** (BC=3)  
(45-0-0) 15 weeks  
**Personal Finance**  
Explore personal financial literacy and management of personal finances. Combine theory and business math concepts to learn fundamental principles of short and long-term financial planning, budgeting, taxation, credit, insurance, investing, and retirement.  
**Antirequisite:** FINS 150  
**Equivalent:** FINS 150

**FINS 2100-3** (BC=3)  
(45-0-0) 15 weeks  
**Consumer Credit**  
Prepare and analyze a consumer credit application according to the three C's of credit using case studies. Examine various retail credit products including secured and unsecured loans, lines of credit, and mortgages. Explore time value of money concepts related to credit.  
**Prerequisite:** FINS 1150 or FINS 150 or by consent of the Associate Dean  
**Antirequisite:** FINS 251  
**Equivalent:** FINS 251



**FINS 2250-3** (BC=3)  
(45-0) 15 weeks  
**Mutual Funds**  
Provides an in depth look at the fundamentals of mutual funds and related investment products in Canada. Students who successfully complete the course requirements are eligible to take the registration exam administered by an outside body. A minimum mark must be achieved on the examination in order to qualify for the mutual funds registration.  
**Prerequisite or Corequisite:** FINS 1150 or consent of department

**FINS 2251-3** (BC=3)  
(45-0) 15 weeks  
**Managing Personal Credit**  
Overview of the six fundamentals of credit. Review various retail credit products including secured and unsecured loans, lines of credit and mortgages. Time value of money concepts to calculate loan payments and compare interest costs. Case studies will be used.  
**Prerequisite:** FINS 1150  
**Corequisite:** BADM 2260 or BUS 310 or permission of the instructor

**FINS 2280-8** (BC=8)  
(120-0) 500 hours over 16 weeks  
**Financial Services Work Experience**  
This course provides an opportunity for students to work in the financial services industry and apply knowledge learned in their first year. Students will be exposed to a variety of entry level positions. This course offers students paid work experience selling personal financial products. Consult the program coordinator for details.

**FINS 2284-3** (BC=3)  
(45-0) 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.

**FINS 2286-3** (BC=3)  
(45-0) 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.  
**Prerequisite:** FINS 1150

**FINS 2287-4** (BC=4)  
(60-0) 15 weeks  
**Advanced Financial Planning**  
Integrates the knowledge and skills gained in the core curriculum of the major in Financial Services. Students will apply their skills and knowledge in the development of a comprehensive financial plan, as well as, other integrative activities throughout the course.  
**Prerequisites:** FINS 2250 and 2251 or permission of the department

**FNCE 2310-3** (BC=3)  
(45-0-0) 15 weeks  
**Corporate Finance**  
Examine types of securities and methods of valuation. Explore operation of asset markets and market efficiency. Examine risk measures and risk reduction methods.  
**Prerequisites:** FINS 1150 and ACCT 1001 or ACCT 102 and ACCT 202 and FINS 150 or by consent of the Associate Dean  
**Antirequisites:** BUS 310 and BADM 260  
**Equivalents:** BUS 310 and BADM 260

**FINS 2320-3** (BC=3)  
(45-0) 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 2321-3** (BC=3)  
(45-0) 15 weeks  
**Select Topics in Financial Services**  
Specialized areas of knowledge in financial services that allow students to gain a broader understanding of the diverse needs of the financial services industry, its management and its customers. Course offering and specific topics depend on availability of a qualified instructor with the required skills and experience.

## French

**FREN 1101-3** (BC=4)  
(60-15) 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.  
**Note:** French Immersion students or students with French 30 should not register in FREN 1101/1102.

**FREN 1102-3** (BC=4)  
(60-15) 15 weeks  
**Beginners' French II**  
For students who have taken French 20 or FREN 101. The oral aspect of the language is stressed in class. The course will prepare you for university-level courses  
**Prerequisite:** French 20 or FREN 101 or equivalent or consent of the Department.  
**Note:** French Immersion students or students with French 30 should not register in FREN 1101/1102.

## General Engineering Technology

GET courses are open to Engineering Technology students only.

**GET 1106-3** (BC=3)  
(30-0-30) 15 weeks  
**Engineering CAD**  
Employ graphical language of drafting using free-hand sketching and 2D CAD. Construct objects in orthographic, isometric, and sections views. Examine principles of component identification and documentation.

**GET 1116-2** (BC=3)  
(30-0-30/30) 15 weeks  
**Professional Communications**  
Employ professional presentation and communication skills to exchange technical data, operational narratives, and information. Use industry standard software tools to collect, summarize and organize date in order to aid in critical decision making processes.

**GET 1129-3** (BC=4)  
(45-23-0) 15 weeks  
**Technology Mathematics I**  
Apply the fundamental principles of algebra, geometry, trigonometry, nonlinear equations, matrices, determinants and differential calculus to engineering related problems.

**GET 1130-3** (BC=4)  
(45-15-15) 15 weeks  
**Technology Mathematics II**  
Practice concepts and techniques of statistical theory as they apply to data collection, summarization, and presentation. Continued application of calculus including partial differential equations.  
**Prerequisite:** GET 1129

**GET 2204-2** (BC=2)  
 (30-0-0) 15 weeks  
**Professional Practice**  
 Select the proper project, program, or portfolio. Employ strategies and develop documents to start, plan, execute, control and close a project in related knowledge areas: Time, Cost, Quality, Human Resource, Communications, Stakeholders, Risk, and Procurement.  
**Prerequisite:** GET 1116

**GET 2208-2** (BC=2)  
 (30-0-0) 15 weeks  
**Project Management**  
 Select the proper project, program, or portfolio. Employ strategies and develop documents to start, plan, execute, control and close a project in related knowledge areas: Time, Cost, Quality, Human Resource, Communications, Stakeholders, Risk, and Procurement.  
**Prerequisite:** GET 1116

**GET 1131-4** (BC=6)  
 (60-15-15) 15 weeks  
**Technology Mathematics**  
 Apply the fundamental principles of algebra, geometry, trigonometry, linear equations, matrices, determinants and differential calculus to engineering related problems. Practice concepts and techniques of statistical theory to data collection, summarization, and presentation.

## Health Care Aide

**HCA 1001-3** (BC=3)  
 (33-0-12) number of weeks will vary  
**Health Care Aide Roles and Responsibility**  
 During this course, you will focus on the role and responsibilities of a health care aide working in a variety of employment settings. The focus of this course is to share information that will result in safe, ethical, and respectful care based on the needs of the client.

**HCA 1002-3** (BC=3)  
 (39-0-6) number of weeks will vary  
**The Human Body, Health and Chronic Illness**  
 Examine the systems that make up the human body and discuss the milestones of growth and development across a lifetime. You will explore the most common of the chronic illnesses, and how to provide safe care based on evidence-informed practices according to the clients' diagnoses, needs, and care plans.

**HCA 1003-4** (BC=4)  
 (48-0-12) number of weeks will vary  
**Communication and Documentation in the Health Care Environment**  
 This course will focus on the role and responsibilities of the health care aide when communicating effectively as a member of the collaborative care team.

**HCA 1004-5** (BC=5)  
 (39-0-36) number of weeks will vary  
**Providing Person-Centred Care and Comfort**  
 The student will learn to support clients to maintain their independence and meet their care needs. The student will acquire the skills and knowledge needed to assist clients with daily grooming and hygiene and to assist clients to walk and use mobility aids and wheel chairs safely.

**HCA 1005-3** (BC=3)  
 (80 clinical hours) number of weeks will vary  
**Clinical Placement I**

**HCA 1006-5** (BC=5)  
 (40-0-35) number of weeks vary  
**Meeting Complex Care Needs**  
 Learners will have the opportunity to acquire the knowledge to learn advanced skills such as active and passive range-of-motion exercises, wound care, tube feeds, catheter care, ostomy care, specimen collection, and respiratory care. In addition, accurate measurement of vital signs is demonstrated, practiced, and assessed.

**HCA 1007-5** (BC=5)  
 (57-0-18) number of weeks will vary  
**Special Activities for Clients with Various Health Conditions**  
 This course is focused on the extensive section on meeting the care and comfort needs of clients with a diagnosis of dementia. Learners also learn about care strategies for assisting other diverse client groups such as clients with a mental health diagnosis and clients with developmental delays and physical disabilities.

**HCA 1008-5** (BC=5)  
 (160 clinical) number of weeks will vary  
**Clinical Placement II**  
 During the second clinical placement, you will experience the role of the health care aide by working under the direction of a regulated health-care professional. You will have the opportunity to work in a variety of health-care settings such as continuing care or acute care.

**HCA 1009-3** (BC=3)  
 (80 clinic) number of weeks will vary  
**Consolidated Clinical Placement**  
 The final clinical placement course – you will practice the role of the health care aide by working under the direction of a regulated health-care professional and buddied with an unregulated health-care professional. You will work in a variety of health-care settings such as continuing care or acute care.

## Health Sciences

**HSCI 1100-3** (BC=3)  
 (45-0-0) 15 weeks  
**Health Sciences I**  
 Introduce the concepts of health and wellness while exploring the roles of health professionals within the Canadian Health Care System. Identify and apply effective study and information literacy skills.

**HSCI 1101-3** (BC=3)  
 (45-0-0) 15 weeks  
**Health Sciences II**  
 Examine health and wellness, ethical, cultural, and legal influences affecting practices of the health care professional. Emphasis on global to regional health.  
**Prerequisite:** HSCI 1100

**HSCI 1105-3** (BC=3)  
 (45-0-0) 15 weeks  
**Personal Health and Wellness**  
 Explore theories and methods relating to health behaviour change with emphasis on health, wellness, and fitness. Identify strategies to develop and sustain a healthy and active lifestyle.

**HSCI 1110-3** (BC=3)  
 (45-0-0) 15 weeks  
**Mathematics for Health Professions I**  
 Practice mathematical skills in reasoning, logic, critical thinking, and problem solving necessary for success in health sciences.

**HSCI 1111-3** (BC=3)  
 (45-0-0) 15 weeks  
**Mathematics for Health Professions II**  
 Perform mathematical applications to further develop critical thinking, problem-solving, and decision-making skills relevant to health care professionals. Emphasis on relating statistical data to health sciences.  
**Prerequisite:** HSCI 1110

**HSCI 1115-3** (BC=3)  
 (45-0-0) 15 weeks  
**Biology for Health Professions**  
 Examine human biology from a microscopic to macroscopic level. Describe homeostasis and the function of cells within the body.

## History

**CLAS 1209-3** (BC=3)  
 (45-0-0) 15 weeks  
**Ancient Greece and Rome**  
 Discover Ancient Greek and Roman culture, daily life, mythology, religion, and history. Analyze the historical importance of Greek and Roman societies.

**CLAS 2320-3** (BC=3)  
 (45-0-0) 15 weeks  
**Roman History**  
 Examine the history and civilization of Ancient Rome using evidence from literary and material culture.

<b>HIST 1207-3</b> (BC=3) (45-0-0) 15 weeks <b>Early Modern World 1450-1789</b> Explore world history from the fall of Constantinople in 1453 to the French Revolution in 1789. Examine and interpret the impact of religious warfare, changing intellectual, state and social structures, witchcraft, European colonial exploration, and the emerging Atlantic world.	<b>HIST 2327-3</b> (BC=3) (45-0-0) 15 weeks <b>The European Witch Craze</b> Explore the intellectual, cultural, social, and the theological origins, development, and decline of witchcraft beliefs in early-modern Europe. This course combines lectures and student discussions.	<b>HIST 2363-3</b> (BC=3) (45-0-0) 15 weeks <b>American Civil War in Context</b> Discover the history of the American Civil War (1861-1865) by exploring the people, beliefs, and battles that shaped it. The war will be analyzed within the context of slavery, presidential power, states' rights, the future direction of the nation, and historical civil wars from antiquity through the early-nineteenth century.
<b>HIST 1208-3</b> (BC=3) (45-0-0) 15 weeks <b>The World Since 1789</b> Discover world history since the French Revolution. Interpret the impact of industrialization, nationalism and imperialism, World Wars, the Russian Revolution, the Cold War and growing globalization.	<b>HIST 2330-3</b> (BC=3) (45-0-0) 15 weeks <b>History of Health and Healing</b> Examine changing health perceptions and healing practices across cultures. Analyze scholarly healing traditions and ideas about the body and healing. Appraise relations among healing practitioners as well as changing social, cultural political attitudes and practices towards health and healing.	<b>HIST 2372-3</b> (BC=3) (45-0-0) 15 weeks <b>The Prairie West in Canada</b> Examine the Prairie region as part of Canada from the end of the fur trade to the present. Analyse the impact of Confederation, Treaty-making, the building of the transcontinental Railway, European settlement, regional identity formation, and relations with the rest of Canada. Recommended preparation: HIST 1374
<b>HIST 1209-3</b> (BC=3) (45-0-0) 15 weeks <b>Medieval World History</b> Discover world history from approximately 300 to 1500. Explore the collapse of ancient empires, various attempts at stability, the expansion of Christianity, the birth of Islam, Asian trade and commercial networking of the globe, effects of European conquest, and the Renaissance.	<b>HIST 2334-3</b> (BC=3) (45-0-0) 15 weeks <b>Modern English Society</b> Explore the everyday life of the English people within the context of the modern state post 1918. Examine the emergence of a consumer culture, the welfare state, mass media, popular culture, work and leisure, political protest, and Thatcherism.	<b>HIST 1373-3</b> (BC=3) (45-0-0) 15 weeks <b>Canada to 1867</b> Examine the land, societies and peoples that would become Canada prior to and during the colonial period. Explore changing relations among Indigenous and colonial powers that preceded the creation of the Dominion of Canada.
<b>HIST 2314-3</b> (BC=3) (45-0-0) 15 weeks <b>Wartime Europe 1900-1945</b> Examine Europe from the turn of the twentieth century to the end of World War II. Consider social, political, military, and economic developments occurring in various European countries during the two World Wars.	<b>HIST 2351-3</b> (BC=3) (45-0-0) 15 weeks <b>The British Empire</b> Discover the social, intellectual, cultural, and political aspects of the British Empire from its origins to 1997. The British Empire will be examined from a British and colonial perspective.	<b>HIST 1374-3</b> (BC=3) (45-0-0) 15 weeks <b>Canada Since 1867</b> Appraise the strategies and tools used to create a state structure across the northern half of North America. Assess the changing impact of political, economic, social, religious factors on the Indigenous, settler, and immigrant populations. Situate Canada within a continental and international context.
<b>HIST 2315-3</b> (BC=3) (45-0-0) 15 weeks <b>Cold War Europe 1945-1991</b> Analyze social, political, and intellectual changes in Europe from World War II to the 1990s. Compare ideological blocs and their impact on postwar reconstruction and international development. Examine decolonization and proxy wars. Interpret factors in the end of the Cold War and the uncertainty that followed.	<b>HIST 2357-3</b> (BC=3) (45-0-0) 15 weeks <b>Gender and Sexuality in History</b> Analyze history through the lens of gender and sexuality. Interpret changing social constructions of gender and sexuality within their economic class, ethnic, religious and political dimensions. Appraise how gender and sexuality influence the writing of history. Prerequisite: 3 credits in HIST or consent of the department	<b>HIST 379-3</b> (BC=3) (45-0-0) 15 weeks <b>Indigenous Peoples and Canada</b> Differentiate Indigenous Peoples and examine their relation to the land they have occupied since time immemorial. Assess Indigenous relations to settler and immigrant peoples since the colonial period. Analyse the changing social, economic, cultural, spiritual, linguistic effects of colonialism on Indigenous realities. Recommended preparation: 3 credits in Canadian History.
<b>HIST 2325-3</b> (BC=3) (45-0-0) 15 weeks <b>Science and Religion Since 1500</b> Survey the interaction between science and religion from the Scientific Revolution to the present. Explore the books of nature and of scripture, reactions to Copernican astronomy, Newton's theology, Darwinian Evolution, Creationism, the Big Bang, and extraterrestrial inspired religions.	<b>HIST 2361</b> (BC=3) (45-0-0) 15 weeks <b>The United States to 1865</b> Explore the United States from colonial settlements to the Civil War. Evaluate the development of an American identity. Examine the Revolutionary War, the struggle to define the republic, slavery and the Civil War.	<b>HIST 390-3</b> (BC=3) (45-0-0) 15 weeks <b>Topics in History</b> Examine a selected topic or thematic area in history. This course may be repeated for credit.
	<b>2HIST 362-3</b> (BC=3) (45-0-0) 15 weeks <b>The United States since 1865</b> Explore the United States from the Civil War to the present. Examine the Presidency, Reconstruction, segregation, industrialization, imperialism, World Wars, youth culture, and the era of the Cold War.	

# Human Resources Management Graduate Certificate

**HRM 1281-3** (BC=3)  
(45-0-0) 15 weeks

## Human Resource Management

Identify and discuss the roles and responsibilities of a human resources department in organizations. Topics include the employment life cycle from planning, hiring, managing and termination.

Antirequisite: BADM 281

Equivalent: BADM 281

**HRM 2510-3** (BC=3)  
(45-0-0) 15 weeks

## Workforce Planning

Recognize workforce planning and talent management as critical elements of an effective human resources management strategy. Focus on the strategic value of designing, implementing, and evaluating evidence-based workforce planning and talent management.

Concurrent Corequisite: HRM 1281 or BADM 281 or by consent of the Associate Dean

Antirequisite: BADM 258

Equivalent: BADM 258

**HRM 2530-3** (BC=3)  
(45-0-0) 15 weeks

## Organizational Culture

Identify 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.

Concurrent Corequisite: HRM 1281 or BADM 281 or by consent of the Associate Dean

**HRM 3540-3** (BC=3)  
(45-0-0) 15 weeks

## Occupational Health and Safety in the Workplace

Develop knowledge of occupational health and safety legislation, issues and programs. Review strategies and techniques used by HR professionals to become actively involved in health and safety in the workplace: hazard assessments and controls, WHMIS, ergonomics, emergency response planning, incident investigation and promoting health and wellness in the workplace.

Pre/Corequisite: HRM 1281 or by consent of the Associate Dean

**HRM 3550-3** (BC=3)  
(45-0-0) 15 weeks

## Employee Engagement

Examine employee engagement as an organization-wide strategy that impacts achievement of mission-related goals, productivity and profitability. Consider factors that positively and negatively influence employee engagement. Identify the role of senior leadership, human resources, supervisors and employees in shaping an engaged workforce.

Prerequisite: HRM 1281

**HRM 3525-3** (BC=3)  
(45-0-0) 15 weeks

## Total Rewards

Assess the link between an organization's strategy and its total rewards and compensation systems. Utilize a practical framework to design, implement, and evaluate a total rewards system.

Prerequisite: ACCT 1001 or ACCT 102 or by consent of the Associate Dean Concurrent Corequisite: HRM 1281 or BADM 281

Antirequisites: BADM 256

Equivalent: BADM 256

**HRM 3535-3** (BC=3)  
(45-0-0) 15 weeks

## Labour Relations

Explore the management of workplaces where unions are present through a labour relations framework. The impact of economy, government, society, and laws are examined in connection to how unions represent workers through organization, collective agreements, bargaining, and dispute resolution.

Concurrent Corequisite: HRM 1281

Antirequisite: BADM 280

Equivalent: BADM 280

**HRM 4515-3** (BC=3)  
(45-0-0) 15 weeks

## Recruitment and Selection

Develop an understanding of the recruitment and selection process and its importance to strategic Workforce Planning. Emphasis will be placed on the various aspects influencing recruitment as well as ways to minimize errors in employment selection in order to increase an organization's competitive position.

Prerequisite: HRM 1281

**HRM 4520-3** (BC=3)  
(45-0-0) 15 weeks

## Learning and Development

Assess, design, and develop learning initiatives from a broader organizational and strategic perspective. Construct an overview to strategic learning and development, assessment of learning and development interventions, and assessment of individual and organizational initiatives.

Prerequisite: HRM 2530

**HRM 5560-9** (BC=9)  
(45-0-90) Lecture 45 hours / Practicum 270 hours

## Directed Experiential Learning

Experience the integration of human resources management theory into practice through applied learning approaches (research, work practicum, or community service projects). Experiences are at least 270 hours (approximately 8 weeks). Includes an introduction to self-reflective practice, workplace readiness, and explores effective work environments.

Prerequisites: HRM 1281, HRM 2530, ACCT 1001, HRM 2510, HRM 4520, HRM 3535, HRM 540, HRM 515, HRM 3525, HRM 550

# Indigenous Studies

**INDS 1205-3** (BC=3)  
(45-0-0) 15 weeks

## Indigenous Peoples in Canada

Introduction to the historical and contemporary contexts and experiences of Indigenous Peoples in Canada with specific focus on Alberta. Introduction to the way Indigenous languages shape understanding and experiences. Introduces colonialism, cultural and political re-emergence, Indigenous and Non-Indigenous relations, and reconciliation.

# Instrumentation and Automation Engineering Technology

**IAET 1001-4** (BC=4)  
(45-0-15) 15 weeks

## Technology Physics

Application and analysis of fundamental problems involving translational and rotational motion, electricity, and electro-mechanics. Application of foundation laws of electricity and magnetism. Analysis of fundamental electrical devices and circuit behaviors.

**IAET 1003-5** (BC=5)  
(60-0-30) 15 weeks

## Electrical Principles I

Analyze electrical Direct Current (DC) and Alternating Current (AC) circuits. Apply the correct wiring methods and bonding for electrical installations based on the conditions of the installation and environment.

Corequisites: IAET 1001, GET 1129

**IAET 1005-3** (BC=3)  
(30-0-30) 15 weeks

## Electrical Principles II

Analyze semiconductor components and circuits. Explore semiconductor physics and rectification circuits. Explore, analyze and calculate transistor amplifiers and biasing. Explore operational amplifier circuits and applications.

Prerequisite: IAET 1003



**IAET 1006-4** (BC=4)  
(45-0-23) 15 weeks  
**Microcontrollers**  
Develop and program microcontrollers to interface with digital/analog circuits and peripheral devices. Write firmware for data acquisition and robotic control.  
**Prerequisite:** GET 1114

**IAET 1007-3** (BC=3)  
(30-0-30) 15 weeks  
**Process Measurements**  
Explore pressure, level, temperature, flow gas detection measurement methods, including calibration of transmitters and how measurement signals are generated. Learn related terminology and formulas.  
**Prerequisites:** IAET 1001, IAET 1003

**IAET 1008-3** (BC=3)  
(30-0-30) 15 weeks  
**Programmable Logic Controllers**  
Examine functions, hardware, software, programming, and interfacing of Programmable Logic Controllers (PLC) in a production environment. Learn digital logic concepts, Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC) and Structured Text (ST) programming.  
**Prerequisite:** GET 1114

**IAET 1009-4** (BC=4)  
(45-0-30) 15 weeks  
**Electrical Machines and Drive**  
Examine principles, construction, control, and performance of direct current, single, and three-phase alternating current motors. Analyze speed and torque characteristics, losses, efficiency factors, and power generation fundamentals. Explore direct current (DC) and alternating current (AC) power conversion techniques. Use variable frequency drives (VFDs) to control electric motors.  
**Prerequisites:** IAET 1001, IAET 1002, IAET 1003  
**Corequisite:** IAET 1005

**IAET 2001-4** (BC=4)  
(45-0-23) 15 weeks  
**Process Control I**  
Learn concepts of industrial control. Identify equipment in a control loop, methods used to achieve control, and fundamental control algorithms.  
**Prerequisite:** GET 1130

**IAET 2002-4** (BC=4)  
(45-0-23) 15 weeks  
**Robotics**  
Analyze robot arm and manipulators. Construct coordinate systems for links. Perform forward and inverse kinematics. Construct Jacobian to calculate singularities and program robots to perform tasks, robot dynamics, motion planning, robotics motion control and force control. Explore machine vision.  
**Prerequisites:** IAET 1001, GET 1130

**IAET 2003-4** (BC=4)  
(45-0-23) 15 weeks  
**DCS, SCADA + HMI**  
Configure the components of a Distributed Control System (DCS), Supervisory Control and Data Acquisition (SCADA) system, and Human Machine Interfaces (HMI) following industry standards and best practices.  
**Prerequisites:** IAET 1008, IAET 1009

**IAET 2004-4** (BC=4)  
(45-0-23) 15 weeks  
**Network Systems**  
Examine the underlying topologies, devices, and protocols of Transmission Control Protocol/Internet Protocol (TCP/IP) and Ethernet-based wired and wireless networks. In-depth coverage of network protocols, devices, topologies, and interoperability associated with modern industrial networks. Examine deterministic, spread spectrum wireless protocol, and performance analyses.

**IAET 2005-4** (BC=4)  
(45-0-23) 15 weeks  
**Hydraulics and Pneumatics**  
Examine the concepts, design, and applications of hydraulic and pneumatic fluid power systems. Simulation of fluids circuits will be explored.  
**Prerequisite:** IAET 1007

**IAET 2006-3** (BC=3)  
(45-0-0) 15 weeks  
**IT Networks**  
Examine inter-operability between business and industrial information systems cyber security principles, threat identification, mitigation strategies. Explore pervasive and n-Tier networking architectures, data monitoring, and management.  
**Prerequisite:** IAET 2004

**IAET 2007-4** (BC=4)  
(45-0-23) 15 weeks  
**Instrumentation Systems**  
Design, select and size instruments and valves for an industrial project. Illustrate project management techniques, in a team, to create an instrumentation engineering package.  
**Prerequisite:** IAET 1007

**IAET 2008-5** (BC=5)  
(60-0-30) 15 weeks  
**Analyzers**  
Describe, validate and calibrate industrial analyzers used to measure the following: water quality, physical properties, composition, air quality, humidity and vibration.  
**Prerequisite:** IAET 1007

**IAET 2009-4** (BC=4)  
(45-0-23) 15 weeks  
**Process Control II**  
Design and implement advanced control strategies to deal with different types of process disturbances and complex industrial processes.  
**Prerequisite:** IAET 2001

**IAET 2010-3** (BC=3)  
(45-0-0) 15 weeks  
**Capstone Project**  
Research and compile a technical report on a technical problem. Demonstrate project management skill set for an Instrumentation and Automation Engineering Technology graduate.  
**Prerequisite:** Completion of all Term 3 courses

## Instrumentation Engineering Technology

IET courses are open to Engineering Technology students only.

**IET 2250-3** (BC=3)  
(45-0-30/30) 15 weeks  
**Analyzers**  
Describe, validate and calibrate industrial analyzers used to measure the following: water quality, physical properties, composition, air quality, humidity and vibration.

## Interdisciplinary Studies

Courses in interdisciplinary studies will normally be 'team taught' by members of different disciplines.

**GNED 1102-3** (BC=3)  
(45-0-0) 15 weeks  
**Controversies in Science**  
Introduction to scientific and mathematical knowledge and its 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.  
**Note:** This is an MRU course offered to MRU BBA students only.

**GNED 1203-3** (BC=3)  
(45-0-0) 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.  
**Note:** This is an MRU course offered to MRU BBA students only.



**GNED 1301-3 (BC=3)****(45-0-0) 15 weeks****Citizenship Without Borders**

Students will gain a broad overview and understanding of issues related to global interaction and global interconnectedness. The complex concept of “globalization” will be analyzed through interdisciplinary perspectives and students will be encouraged, through debating key issues, to be active global citizens. Instructors may approach the course through the use of specific thematic structures.

**Note:** This is an MRU course offered to MRU BBA students only.

**INTP 1083-6 (BC=6)****Anatomy and Physiology**

Develop a working knowledge of the anatomy and physiology of the human body. Explore each body system's anatomy and physiological processes and how they relate to maintaining homeostasis.

**INTP 1102-4 (BC=4)****(60-0-0) 15 weeks****Healthcare Anatomy and Physiology**

Explore basic biological structures and functions of the human body using a systems approach. Develop understanding of the significance of interrelationships between systems. Consider specific applications relevant to various health disciplines. Use of medical terminology will be emphasized.

**INTP 1104-3 (BC=3)****(30-0-30) 15 weeks****Healthcare Communication I**

Develop verbal and non-verbal communication and active listening skills relative to professional health care relationships and situations. Interprofessional collaboration is introduced by identifying roles, team functioning, leadership, communication, conflict resolution, and client centered care.

**INTD 1999-0 (BC=9 min. to 20 max.)****(135-300) 15 weeks****Study Abroad**

Receive recognition for participation in an approved international study abroad program.  
**Prerequisite:** Enrolled in an academic program with a study abroad agreement and in good academic standing.

**INTD 2301-5 (BC=5)****(0-0-224) 2 weeks****Cultural Immersion**

The focus of this course is to develop cross-cultural competencies through immersion in an international setting or selected domestic location. Interagency collaboration and practical experience with an emphasis on global issues and their impact on health in regions with middle or low income populations will be the focus of this course.

**Recommended prerequisites:** Any 200 level university transfer course

**INTP 2303-3 (BC=3)****(0-45-60) 7 weeks****Competency Development**

Refine and develop knowledge, skills and abilities required for nursing practice in clinical settings. Promote and practice client and student safety through demonstration of skills, knowledge, attitudes, behaviour and sound decision-making.

**INTD 2325-3 (BC=3)****(45-0-0) 15 weeks****Mindfulness, Meditation and the Body**

Introduction to contemplative practices with a focus on secular meditation and mindful body work. Topics include various contemporary practices, the influence of neuroscience, impact on professions, brain health, and how practices benefit clients/patients/employees/students and self.

**INTD 4420-3 (BC=3)****(45-0-0) 15 weeks****Equity, Diversity, and Inclusivity in Global Health**

This course will provide opportunities for students to develop a deeper, more situated, understanding of the guiding principles that underpin equity, diversity, and inclusion (EDI) in the global context. In line with the United Nations Sustainable Development Goals (SDGs), the students will recognize the key issues related to EDI in global health including global citizenship, a sense of social justice; environmental, social, economic and political global challenges; agency; intersectionality (ethnicity, gender, patriarchy, power relationships) and an appreciation for cultural diversity.

**Prerequisite:** All courses in the program except NURS 4422, NURS 4425, and NURS 4485

**Corequisite:** NURS 4422 and NURS 4425

## Justice Studies

**JUST 1100-3 (BC=4)****(45-0-0) 15 weeks****The Canadian Justice System**

Examine and analyse patterns of crime and victimization; police operations, discretion and decision making; the criminal courts, including sentencing; the corrections systems, including correctional institutions and community-based models within the context of the structure and operation of the Canadian criminal justice system.

**JUST 1105-1 (BC=2)****(0-45-0) 15 weeks****Professional Seminar I**

Introduction to professional practice through integration of knowledge, skills, and values required of professionals within justice-related fields. Explore self-care, wellness, physical fitness, professional documentation standards, and personal values clarification.

**Corequisites:** JUST 1100, ENGL 1219

**JUST 1106-1 (BC=2)****(0-45-0) 15 weeks****Professional Seminar II**

Develop professional practice through the integration of knowledge, skills, and values required of professionals within justice-related fields. Continued focus on self-care, wellness, physical fitness, professional documentation standards, and clarifying personal values.

**Prerequisite:** JUST 1105

**JUST 1110-3 (BC=4)****(45-0-0) 15 weeks****Canadian Criminal Law**

Investigation of the nature, purpose, scope, sources, and basic principles of the Canadian criminal justice system. Study of the basic elements of a criminal offence and certain major defences. Examination of other statutes that impact on criminal law. Examination of issues in sentencing, victims' rights and emerging criminal justice issues.

**Prerequisite:** JUST 1100

**JUST 1115-3 (BC=4)****(45-0-0) 15 weeks****Corrections**

Introduction to the development and operation of correctional practices in Canada. Introduces the experiences of incarcerated persons and correctional staff. Examines the experiences of specific groups of incarcerated populations. Examines diverse case management and treatment practices. Investigates functions and dysfunctions of corrections and current issues and reform initiatives.

**Prerequisite:** JUST 1100

**JUST 2200-3 (BC=4)****(45-0-0) 15 weeks****The Justice System and Indigenous Canadians**

Examine relationships between Indigenous Peoples in Canada and the Justice System including the impact of language and structural factors. Explore Indigenous systems of justice and the connection between reconciliation and the Justice System.

**Prerequisites:** JUST 1100 and 1 Course from INDS List:

INDS 1205: Indigenous Peoples in Canada  
 ANTH 2327: Cultures in a Global Context  
 ANTH 2356: Survey: Indigenous Canada  
 ENGL 2385: Indigenous Literature  
 HIST 2372: The Prairie West in Canada  
 HIST 1373: Canada to 1867  
 HIST 1374: Canada Since 1867  
 HIST 2379: Indigenous Peoples and Canada  
 SOCI 2307: Indigenous Peoples in Canada  
 SOCI 2368: Race and Ethnicity in Canada  
 POLI 1223: Canadian Political Issues

**JUST 2205-1 (BC=2)****(0-45-0) 15 weeks****Professional Seminar III**

Develop professional practice through integration of knowledge, skills and values required of the professionals within justice-related fields. Career preparation, technical writing, employability, communication skills and preparation for practicum are emphasized. Develop self-care, wellness, physical fitness, professional documentation standards, and clarifying personal values.

**Prerequisite:** JUST 1106

**Corequisite:** JUST 2215

**JUST 2206-1 (BC=2)****(0-45-0) 15 weeks****Professional Seminar IV**

Apply professional practice knowledge, skills and values developed through professional seminars. Career preparation, technical writing, employability, communication skills and preparation for practicum are emphasized.

**Prerequisite:** JUST 2205

**JUST 2210-3 (BC=4)****(45-0-0) 15 weeks****Conflict Resolution**

Examine the dynamics of conflict and conflict management. Concepts and practices of managing conflict within individual lives, the community justice field, and the larger societal context are introduced through application of philosophy, and using techniques to address and manage conflict on a societal, institutional and individual level.

**Prerequisite:** JUST 1106

**JUST 2215-3 (BC=4)****(45-0-0) 15 weeks****Community Justice Initiatives**

Introduce the various restorative justice/ crime prevention initiatives available in Alberta, and what roles these initiatives play in communities. Students focus on the roles of community justice initiatives such as restorative justice, victim-offender mediation, victim services, crime prevention organizations, crime response organizations, and vigilantism.

**Prerequisite:** JUST 1100

**Corequisite:** JUST 2205

**JUST 2220-3 (BC=4)****(45-0-0) 15 weeks****Gender and the Justice System**

Examine the intersection of gender, ethnicity, and class in terms of victimization, offending, and working within the justice system.

**Prerequisite:** JUST 1100

**JUST 2225-4 (BC=4)****135 hours****Practicum**

Introduce students to work placement in a justice setting. Application of in-class learning to a workplace setting, including building professional relationships and ethical conduct.

**Prerequisite:** JUST 2205

**Corequisite:** JUST 2206

**Note:** Registration in JUST 2225 will be based on GPA and limited depending on the number of practicum seats available each year. GPA is calculated based on the last 30 credits applicable to the Justice Studies Diploma not including the JUST Seminars. Practicum must be completed in the final term of the student's program. Students must have passed JUST 1105, JUST 1106, and JUST 2205 to register in JUST 2225.

**JUST 2226-3 (BC=4)****(45-0-0) 15 weeks****Capstone**

Investigate a challenging problem or question in the field of Justice Studies. Develop ideas or solutions through sustained inquiry and collaborative teamwork. Reflect on the integration of course work, and prepare for future careers. Capstone must be taken in the final term of the student's program.

**Prerequisite:** JUST 2205

**Corequisite:** JUST 2206

## Kinesiology and Sport Studies

### A. KINESIOLOGY AND SPORT STUDIES COURSES

**KNSS 1102-3 (BC=3)****(22.5-0-30) 15 weeks****Foundations of Human Movement**

Explore human movement through multiple contexts, including daily living, recreation, sport and exercise and apply in practice through participatory and experiential learning.

**KNSS 1200-3 (BC=4)****(45-0-30) 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:** Successful completion of this course with a minimum C+ will satisfy requirements for NURS 1215

**KNSS 1204-3 (BC=3)****(45-0-0) 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 1209-3 (BC=3)****(45-0-0) 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 1210-3 (BC=3)****(30-0-30) 15 weeks****Personal Fitness and Wellness**

An exploration and application of the foundations of health, wellness and fitness from a personal perspective. Theory and practical strategies are used to empower the student in developing a healthy active lifestyle.

**KNSS 1214-3 (BC=4)****(45-0-15) 15 weeks****Introduction to Personal Physical Fitness**

Examination and application of the foundations of physical fitness, with emphasis on the knowledge and understanding of basic concepts and methods of physical fitness and active living.

<b>KNSS 1244-3</b> (BC=3) (45-0-0) 15 weeks <b>Introduction to Nutrition</b> 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. <b>Note: Not to be taken by students with credit in KNSS 224</b>	<b>KNSS 2203-3</b> (BC=3) (45-0-0) 15 weeks <b>Skill Acquisition and Performance</b> Theory of skill acquisition, motor learning, and performance in a variety of sports, physical activities, and recreation.	<b>KPED 1292-3</b> (BC=4) (45-0-22.5) 15 weeks <b>Introduction to Elementary School Physical Education</b> This course provides theoretical and practical experiences in teaching and planning physical education. Emphasis is on physical literacy and developmentally appropriate activities for elementary school aged children 5-12.
<b>KNSS 1250-3</b> (BC=3) (45-0-0) 15 weeks <b>Introduction to the Administration of Sport, Physical Activity, and Recreation Programs</b> 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.	<b>KNSS 2205-3</b> (BC=3) (45-0-0) 15 weeks <b>History of Sport</b> 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. <b>Prerequisite:</b> KNSS 1204	<b>KPED 1294-3</b> (BC=3) (45-0-0) 15 weeks <b>Introduction to the Movement Activities of Youth, Part I</b> A wide range of physical activities and important underlying concepts. Emphasis is on understanding concepts which relate to games, skills, and activities.
<b>KNSS 1253-3</b> (BC=3) (45-0-0) 15 weeks <b>Psychological Sport Performance</b> 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.	<b>KNSS 2220-3</b> (BC=3) (45-0-22.5) 15 weeks <b>Introduction to Athletic Therapy</b> Athletic therapy in theory and practice. Sports medicine, care and prevention of injuries, and safety in athletics and physical education. <b>Prerequisite:</b> KNSS 1200	<b>B. DANCE COURSES</b>  <b>KDNC 1200-3</b> (BC=3) (45-15) 15 weeks <b>The Spectrum of Dance in Society</b> Theory and practice of dance as a human physical activity. Focus will be on the aesthetic, expressive, and rhythmical aspects of movement in a culture's artistic and social life. Movement content, techniques, improvisation, and composition in a variety of dance forms.
<b>KNSS 1260-3</b> (BC=3) (45-0-0) 15 weeks <b>Introduction to Coaching Theory</b> Introduction to coaching theory focusing on theoretical and practical coaching topics including ethical decision-making, practice planning, basic mental skills, teaching and learning. <b>Note: This course meets the standards of N.C.C.P. Part A and Part B. Introduction to Competition.</b>	<b>KNSS 2240-3</b> (BC=4) (45-0-22.5) 15 weeks <b>Adapted Physical Education</b> 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.	<b>C. PHYSICAL ACTIVITY COURSES</b>  Physical activity is the primary means physical educators use to help others attain well-being and personal fulfillment. As a Kinesiology and Sport Studies student, or an Education student with a P.E. major or minor, you need to take part in and appreciate a variety of activities, from your own and other cultures, to better meet the leisure and work needs of your clients. You will develop a personal foundation of physical activity, including appreciation, skill, analytical understanding, and knowledge about different activities. Physical activity is the "physical" in physical education.
<b>KNSS 2201-3</b> (BC=3) (45-0-0) 15 weeks <b>Biomechanics</b> 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.	<b>KNSS 2299-3</b> (BC=3) (22.5-0-0) 30 weeks <b>Directed Studies in Kinesiology and Sport Studies</b> 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. <b>Prerequisite:</b> Consent of Chairperson	<b>KPAC 1211-3</b> (BC=3) (45-0) 15 weeks <b>Basketball</b> Theory and practice in individual and team activities.
<b>KNSS 2202-3</b> (BC=4) (45-0-30) 15 weeks <b>Physiology of Exercise</b> 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. <b>Prerequisite or Corequisite:</b> PSIO 2258/2259	<b>KNSS 2307-3</b> (BC=3) (45-0-0) 15 weeks <b>Growth and Development</b> Growth and development using a lifespan approach stressing changes in physical growth and motor development with emphasis on individual differences.	<b>KPAC 1214-3</b> (BC=3) (45-0) 15 weeks <b>Ice Hockey</b> 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.
<b>KNSS 2312-3</b> (BC=3) (45-0-0) 15 weeks <b>Research Methods in Kinesiology</b> Introduces research methods and design used in kinesiology. Focus on evaluation and analysis of research studies, qualitative, quantitative and mixed research methods with focus on kinesiology context. <b>Prerequisite:</b> KNSS 1209		

**KPAC 1231-3** (BC=3)  
(45-0-0) 15 weeks  
**Badminton**  
Theory and practice in service and service return, forehand and backhand drive, clear and smash, drop shots, basic tactics, and officiating. (Must supply own equipment.)

**KPAC 1237-3** (BC=3)  
(45-0-0) 15 weeks  
**Volleyball**  
Theory and practice in individual and team activities.

**KPAC 1255-3** (BC=3)  
(45-0-0) 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.

**KNSS 1290-3** (BC=3)  
(45-0-0) 15 weeks  
**Metabolic Conditioning**  
Develop knowledge and training in cardiovascular fitness through aerobic and anaerobic conditioning.

**KNSS 1296-3** (BC=3)  
(45-0-0) 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.

**KNSS 1321-3** (BC=3)  
(45-0-0) 15 weeks  
**Applied Resistance Training**  
Examination and application of fundamental and specific principles associated with resistance training methodologies.

## Legal Assistant

Open to Legal Assistant students or with consent of the Department.

**LEGL 1100-3** (BC=3)  
(45-0-0) 15 weeks  
**Keyboarding I**  
Beginning keyboarding skills including touch keying with no key watching. Emphasis on building skills through proper technique.

**LEGL 1105-1** (BC=1)  
(15-0-0) 15 weeks  
**Canadian Legal System**  
Identify the operation and various roles in the Canadian legal system, including the processes and institutions involved in making laws.

**LEGL 1110-3** (BC=3)  
(45-0-0) 15 weeks  
**Litigation I**  
Introduction to civil litigation including the legal system, structure of a lawsuit, Rules of Court, commencing an action by Statement of Claim and Default Judgments.

**LEGL 1115-3** (BC=3)  
(45-0-0) 15 weeks  
**Litigation II**  
Examination of the Defendant's choices in a contested lawsuit. Includes torts and how matters proceed to trial when settlements are unsuccessful.  
**Prerequisite:** LEGL 1110

**LEGL 1120-3** (BC=3)  
(45-0-0) 15 weeks  
**Corporate Law**  
Discuss Alberta business structures and legal procedures. Create a corporation, maintain a minute book, and complete the annual requirements for the corporation.

**LEGL 1125-2** (BC=2)  
(30-0-0) 15 weeks  
**Contracts**  
Identify and describe the components of a contract, common problems and remedies.  
**Prerequisite:** LEGL 1105

**LEGL 1130-3** (BC=3)  
(45-0-0) 15 weeks  
**Real Estate I**  
Introduction to the Land Titles system and types of ownership. Prepare documents for a residential sale.

**LEGL 1135-3** (BC=3)  
(45-0-0) 15 weeks  
**Keyboarding II**  
Demonstrate accuracy and speed building in keyboarding skills, including transcription work and document production for the creation of business forms, legal documents, and correspondence.  
**Prerequisite:** LEGL 1100

**LEGL 1140-3** (BC=3)  
(45-0-0) 15 weeks  
**Information Processing I**  
Introduction to software and computer technologies required for the preparation of legal documents.

**LEGL 1145-2** (BC=2)  
(30-0-0) 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 2200-3** (BC=3)  
(45-0-0) 15 weeks  
**Professional and Interpersonal Skills**  
Demonstrate professional skills and behaviours, including interpersonal and intrapersonal skills, ethics, and conflict resolution. Practice job search skills.

**LEGL 2205-3** (BC=3)  
(45-0-0) 15 weeks  
**Estate Planning**  
Prepare Wills, Enduring Powers of Attorney, Personal Directives, and applications for a Guardian and Trustee, including the distribution of an estate when a person dies without a Will.

**LEGL 2210-3** (BC=3)  
(45-0-0) 15 weeks  
**Litigation III**  
Complete the documents required for the collection of judgments, including writs, garnishment and seizures, and Chamber applications.  
**Prerequisite:** LEGL 1115

**LEGL 2215-3** (BC=3)  
(45-0-0) 15 weeks  
**Litigation IV**  
Complete documents for a variety of Chamber Applications.  
**Prerequisite:** LEGL 2210

**LEGL 2220-3** (BC=3)  
(45-0-0) 15 weeks  
**Information Processing II**  
Application of advanced word processing concepts, communication, scheduling, spreadsheets, and law office accounting software.  
**Prerequisite:** LEGL 1140

**LEGL 2225-3** (BC=3)  
(45-0-0) 15 weeks  
**Estate Administration**  
Prepare 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 2205

**LEGL 2230-3** (BC=3)  
(45-0-0) 15 weeks  
**Commercial Law**  
Introduction to the purchase and sale of a business including Master Sales Agreement, sale of shares, sale of assets, and commercial financing.  
**Prerequisite:** LEGL 1120 and LEGL 2230

**LEGL 2233-3** (BC=3)  
(45-0-0) 15 weeks  
**Commercial Law**  
Introduction to the purchase and sale of a business including: Master Sales Agreements, sale of shares, sale of assets, the Alberta Personal Property Registry system and commercial financing.  
**Prerequisites:** LEGL 1120 and LEGL 2230



**LEGL 2235-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Real Estate III**  
 Complete condominium sale, farmland sale, and residential purchase with varying financing documentation.  
**Prerequisite:** LEGL 2230

**LEGL 2240-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Family Law**  
 Prepare documentation for an application for parenting, divorce and a separation agreement using applicable statutes. Recognize issues regarding support, custody, access, and also alternative dispute resolution methods.  
**Prerequisites:** LEGL 1110, LEGL 1115 and LEGL 2210

**LEGL 2245-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Technology Integration**  
 Application of advanced computer applications using a case-based approach to cloud computing, spreadsheets, databases, and specific law office software.  
**Prerequisite:** LEGL 2220

**LEGL 2250-3** (BC=3)  
**(15 hrs class/175 hrs practicum) 6 weeks**  
**Practicum**  
 Prepare for, and complete, 175 hours of full-time practicum experience as a Legal Assistant.  
**Prerequisite:** Completion of all other requirements with a GPA of 2.0

## Licensed Practical Nurse to Bachelor of Science Nursing Transition Program

See listings under "Indigenous Studies," page 32 and "Nursing," page 44.

## Machine Learning Analyst

**MACH 1191-3** (BC=3)  
**(45-0) 15 weeks**  
**Statistics I**  
 Students will learn the basic principles of statistics, acquire the skills to solve elementary statistical and probability problems, and gain hands-on experience with well-known statistical software, as well as basic methods for collecting data. Students will also learn the main tools of descriptive statistics to visualize collected data, analyze data distributions, and establish correlations and regressions between random variables.  
**Prerequisite:** Mathematics 30-1 or 30-2

**MACH 1192-3** (BC=3)  
**(45-0) 15 weeks**  
**Scientific and Technical Writing**  
 This technical writing course prepares students with the skills required for writing in professional contexts. Students will learn to produce documents reflecting different types and styles of technical communication, including technical descriptions, proposals, reports, online documents, and instruction manuals. Students will also learn to organize information, write clearly and concisely, rigorously edit their work, cite sources appropriately, and apply APA formatting to a variety of documents. In addition, students will examine effective document design and the use of visual aids, and will be required to create and deliver presentations based on these principles.  
**Prerequisites:** 60% in English 30-1 or 70% in English 30-2

**MACH 1193-3** (BC=4)  
**(45-45) 15 weeks**  
**Introduction to Computing**  
 This course introduces learners to fundamental concepts in computing science, including logic, algorithms and their properties, and control constructs of sequence, selection, and repetition. Students will learn the basics of data, including types and representation, and will learn to do some computing and data theories in this course can be applied to a wide range of careers and industries.

**MACH 1196-3** (BC=3)  
**(3-0-0) 15 weeks**  
**Introduction to Machine Learning and Data Science**  
 This course introduces students to the field of machine learning and data science, setting them up for success in the Machine Learning Analyst program. Students will explore career options in this field and the types of skills required. Concepts such as computer and file management, data manipulation using various tools, writing and presentation skills will be covered.

**MACH 1291-3** (BC=3)  
**(45-15) 15 weeks**  
**Linear Algebra I**  
 This course introduces the basic principles and fundamentals of linear algebra and helps students develop logical, creative, and critical-thinking and problem-solving skills for various mathematical problems in computer science and machine learning, computer graphic design, physics, mechanics, engineering, economics, ecology, and other natural sciences. Students will learn about systems of linear equations, matrices and matrix operations, linear and matrix transformations, determinants, vector spaces and subspaces, coordinates, dimensions, and eigenvalues and eigenvectors.  
**Prerequisite:** Mathematics 30-1 or 30-2

**MACH 1292-3** (BC=3)  
**(45-15) 15 weeks**  
**Calculus I**  
 This course introduces the basic principles and fundamentals of calculus and helps students develop logical, creative- and critical-thinking skills, and problem-solving skills for various mathematical problems. Students will learn about rectangular coordinates, analytic geometry, transcendental functions, inverse functions, limits, continuity, derivatives and applications, Taylor polynomials, integration, and applications. The examples and problems are taken from various subject areas, including physics, chemistry, biology, ecology, sociology, economics, business, engineering, probabilities, and statistics.

**MACH 1293-3** (BC=4)  
**(45-45) 15 weeks**  
**Algorithms**  
 Students will be introduced to the basic concepts and theories in the identification and analysis of algorithms. They will explore the different types of algorithms and how they are used to solve problems. Topics include a review of fundamental tools (algorithm analysis, basic data structures, searching, sorting, and fundamental techniques), graph algorithms (graphs, weighted graphs, matching, and flow), Internet algorithms (text processing, number theory and cryptography, and network algorithms), NP and computational intractability, computational geometry, and algorithmic frameworks. Students will also study analysis techniques for estimating run-time efficiency.  
**Prerequisite:** MACH 1193

**MACH 1294-3** (BC=3)  
**(45-0) 15 weeks**  
**Introduction to Artificial Intelligence**  
 This course introduces students to the different types and business applications of artificial intelligence technologies. Students will explore how artificial intelligence is being used and may be used in the near future in a wide range of industries. They will be introduced to the concepts of supervised and unsupervised learning, the use of data, deep learning, neural networks, and applications such as natural language processing.

**MACH 1295-3** (BC=3)  
**(45-0) 15 weeks**  
**Canadian Business Fundamentals**  
 This course provides an interdisciplinary approach to fundamental business topics encountered in Canadian business. Students will explore a variety of business theories and issues that comprise important business functions seen in modern organizations.



**MACH 2191-3 (BC=4)****(45-45) 15 weeks****Machine Learning Work Integrated Project I**

In this course, students work in groups on machine learning projects based on real-world business cases and solutions. Students will learn the project lifecycle and acquire the multidisciplinary teamwork and strategy skills required for employment. While working in domain-specific cohorts on applied machine learning business cases using problems and datasets developed by local companies, students will also explore the business case for employing machine learning solutions. By working through applied machine learning projects, students will begin to develop a portfolio of work and learn the practical skills of conceptualizing and progressing through a basic project workflow as a team. This course is taught by local experts and industry guest lecturers, so students will have the opportunity to engage industry experts and network with potential employers. Examples of domain-specific cohorts may include health, fintech, social enterprise, and environmental science and natural resources.

**Prerequisite:** MACH 1191, MACH 1192**Corequisite:** MACH 2193**Restricted to Machine Learning Analyst****MACH 2192-3 (BC=4)****(45-45) 15 weeks****Machine Learning I**

This course introduces students to major machine learning concepts and several fundamental machine learning algorithms. Students will learn to conceptualize machine learning solutions for basic business problems, and will learn the stages of realizing a machine learning project. This includes defining the business problem, preparing data, and creating and evaluating machine learning models.

**Prerequisites:** MACH 1292, MACH 1293, MACH 1295**MACH 2193-3 (BC=4)****(45-45) 15 weeks****Exploratory Data Analytics**

This course introduces students to methods for gathering, exploring, analyzing, and presenting data. Students will learn how to effectively organize data and transform it for use in machine learning and analytics. The course covers the application of statistical analyses, including averages, standard deviation, histograms, distributions, and more. Students will explore software that can be used to gather, sort, analyze, and visualize data.

**Prerequisites:** MACH 1293, MATH 1291, MACH 1191**MACH 2194-3 (BC=3)****(45-0) 15 weeks****Technology Ethics and Society**

Students will explore the impacts of technology and related business decisions on society and social issues. Emphasis will be placed on the use of data in emerging technologies, including artificial intelligence, the impact and harms of data biases, and the resulting ethical dilemmas that are changing how society understands and interacts with these technologies. This course will require students to formulate moral reasoning and analytical skills by working through contemporary examples and real-life applications of technology ethics.

**MACH 2195-3 (BC=4)****(45-45) 15 weeks****Database Systems**

Students will be introduced to some of the core concepts of database systems used in modern organizations, including the relational model; Structured Query Language (SQL); database modelling, design, and administration; database processing applications; and the big data phenomenon.

**Prerequisite:** BUSD 1295**MACH 2291-3 (BC=4)****(45-45) 15 weeks****Machine Learning Work Integrated Project II**

This course is a continuation of MACH 2191 (Machine Learning Work Integrated Project I). In this course, students work in groups on machine learning projects based on real world business cases and solutions. Students will learn the project lifecycle and acquire the multidisciplinary teamwork and strategy skills required for employment. Students will work in domain-specific cohorts on applied machine learning business cases using problems and datasets developed by local companies while also exploring the business case for employing machine learning solutions. By working through applied machine learning projects, students will begin to develop a portfolio of work and learn the practical skills of conceptualizing and progressing through a basic project workflow as a team.

This course is taught by local experts and industry guest lecturers, so students will have the opportunity to engage industry experts and network with potential employers. Examples of domain-specific cohorts may include health, fintech, social enterprise, and environmental science and natural resources.

**Prerequisite:** MACH 2191**MACH 2292-3 (BC=4)****(45-45) 15 weeks****Machine Learning II**

Through this course students will learn how machine learning solutions are developed and operationalized up to the deployment stage. Students will learn about more advanced machine learning algorithms, and explore how data and algorithm selections influence machine learning model performance. Students will learn to train and test machine learning models to achieve targeted business outcomes, including identifying success metrics and evaluating model performance. Students will learn how to identify the ways machine learning models can amplify data biases, and develop solutions to reduce their negative impact.

**Prerequisites:** MACH 2192, MACH 2193, CMPT 2195**MACH 2293-3 (BC=3)****(45-0) 15 weeks****Technology Business Strategy and Execution**

Students will learn how technology is used by businesses to achieve a competitive market position. This course covers strategic business theory and the major business decisions that go into executing a technology based strategy. Students will learn to use business strategy to conceptualize competitive business solutions that leverage advanced technologies, including artificial intelligence, and analyze competitive situations.

**Prerequisite:** BUSD 1295**MACH 2294-3 (BC=3)****(45-0-0) 15 weeks****Public Speaking for Business**

Students will explore basic techniques of oral communication and public speaking with an emphasis on speech construction and delivery. Through this course, students will learn to develop presentations and deliver them to different audiences. Students will also learn to deliver business proposal presentations and pitches, and apply public speaking skills for communication with stakeholders.

**MACH 2295-3 (BC=3)****(45-0) 15 weeks****Business Values and Ethics**

In this course you will explore the impact of business decisions on social and environmental issues relevant to real-life work situations, with an emphasis on the kinds of problems most leaders will encounter as decision makers. You will interpret ethical concepts that are relevant to resolving ethical dilemmas and formulate the moral reasoning and analytical skills needed to resolve ethical dilemmas.

**MACH 2296-4** (BC=4)  
(3-0-3) 15 weeks  
**Machine Learning Deployment and Software Development**  
In this course students will explore the steps that come after machine learning model creation, including the software development process, requirements analysis, testing and user experience (UX) design.  
**Prerequisites:** MACH 1293, MACH 1294, and MACH 2293

## Management

### MARKETING COURSE

**MKT 1132-3** (BC=3)  
(45-0-0) 15 weeks  
**Marketing Principles**  
Introduce the principles of marketing and discuss the key skills and concepts that are necessary for today's successful marketing professionals, including: consumer behavior, the marketing mix (product, price, place, promotion), target markets, positioning, and the elements of a marketing plan.  
**Equivalent:** BADM 132

### MANAGEMENT COURSES

**MGMT 2210-3** (BC=3)  
(45-0) 15 weeks  
**Project Management**  
This course introduces students to project management. Content includes concepts, principles, and the inputs, outputs, tools and techniques necessary to take the project from inception to completion. Students will learn, using PMBoK (Project Management Body of Knowledge), how to initiate a project, plan for its completion, monitor and control the project during implementation, and closing the completed project. Projects will be developed that are industry specific and will be used to allow students to take a project from inception to completion.  
**Credit will not be granted for both BADM 2253 and MGMT 2210.**  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 2220-3** (BC=3)  
(45-0) 15 credits  
**Interpersonal Communications**  
This course provides an introduction and overview to aspects of interpersonal communication. Utilizing a mix of theory and application, the course provides students with opportunities to gain an understanding of the elements of interpersonal communication and demonstrate a foundational level of knowledge and skill of the application of interpersonal communication for use in a variety of settings.  
**Credit will not be granted for both BADM 2204 and MGMT 2220.**  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 3310-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to the Stock Market**  
This course focuses on key principles of technical and fundamental analysis necessary to make successful investment decisions. Examined are key factors which influence various financial markets. Students will participate in a group stock market simulation by applying stock selection principles to construct a portfolio.

**MGMT 3215-3** (BC=3)  
(45-0) 15 weeks  
**Entrepreneurship**  
This experiential course develops an understanding of innovation and builds awareness of the practical experiences of entrepreneurs. Students participate in experiential activities and competitions, and learn using a practical framework that integrates current research, practice and lessons learned from people who have started impactful businesses with limited resources.  
**Credit will not be granted for both BADM 2251 and MGMT 3215.**  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 3315-3** (BC=3)  
(45-0-0) 15 weeks  
**Advanced Corporate Finance**  
This course is intended to consolidate students' understanding of the theories and practices of effective financial decision making in a corporate environment, and to assess the impact of these decisions on the firm's performance. Course coverage includes economic theory of the firm, advanced capital budgeting concepts, stakeholder conflicts, and mergers and acquisitions.  
**Prerequisite:** BADM 2260 or BUS 2310 (Recommended BUS 2310) or consent of the Donald School of Business

**MGMT 3320-3** (BC=4)  
(45-0-15) 15 weeks  
**Business Statistics II**  
This course examines inferential statistical analysis while emphasizing thinking skills and computer literacy. Topics include parametric and nonparametric hypothesis testing procedures. Simple and multiple regression analysis will also be examined and applied to business situations. The understanding of the course material will further be enhanced through exposure to both manual and computerized methods using current statistical computer software.  
**Prerequisite:** BUS 306 or BADM 2111  
**Credit will not be granted for both BUS 307 and MGMT 3320.**  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 3410-3** (BC=3)  
(45-0) 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 money system; and current trends in international business. Canada's place within the global economy and the challenges Canadian business encounter conducting international business.  
**Must be BBA student or consent of the Donald School of Business.**

**MGMT 3420-3** (BC=3)  
(45-0) 15 weeks  
**Operations Management**  
This course is a survey of the decision processes in production and operations management, and the relationship to other business areas. Topics covered include forecasting, product and service design, capacity planning, waiting line models, facility location and layout, process selection, design of work systems, linear optimization, quality inspection and control, life cycle management, inventory management, aggregate planning, material requirements planning, project operations management, and operations scheduling.  
**Prerequisite:** BUS 306 or BADM 2111  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 3450-3** (BC=3)  
(45-0) 15 weeks  
**Leadership**  
The course offers a balanced integration of theory and practice of skills generally accepted as necessary to leaders of small enterprises and other organizations. The course is designed to help guide individuals in developing specific personal management competencies. Topics include problem solving, decision-making, team building, initiating and managing change, organization, and managing conflict. The assigned readings and practical exercises and assignments are designed to help students foster an appreciation of the complexity of the issues and factors facing the organizational leadership process. This course will help to develop the leadership skills that are necessary in students' personal and professional roles  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 4430-3** (BC=3)  
(45-0) 15 weeks  
**Business Plan Development**  
Students will be able to prepare and present a solid business plan for a new or existing enterprise. Areas covered will include identifying and assessing opportunities, developing a winning strategy, identifying resource requirements and selling the plan to financing sources.  
**Prerequisite:** BADM 1110, ACCT 1104 or 2204  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 4460-3** (BC=3)  
(45-0) 15 weeks  
**Change Management**  
This course provides students with an understanding of how HR professionals effectively identify, guide, and implement changes within an organization. Topics include: change agents, barriers to change, and employee communication strategies during times of transition. Students will explore the concept of coaching employees through transitions and effectively aligning change to an organization's strategic intent.  
**Prerequisite:** BADM 1110  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 4470-3** (BC=3)  
(45-0) 15 weeks  
**Corporate Social Responsibility**  
This course deals with the interrelationship of corporate social responsibility, corporate integrity, organizational culture, corporate strategy and organizational management/ leadership. Topics covered may include: fair-trade and globalization and other converging and emerging ideas about the continuing evolution of CSR.  
**Prerequisite:** BUS 1303 or MGMT 3450  
**Must be a BBA student or have consent of the Donald School of Business.**

**MGMT 4490-3** (BC=3)  
(45-0) 15 weeks  
**Strategic Management**  
This capstone course develops the conceptual and applied skills associated with analyzing a competitive situation from a general management point of view. It addresses issues affecting the fundamental direction of the firm, considers the formulation and implementation of strategy, focuses on the extent to which different aspects of the firm fit with key environmental forces, and discusses the organization's ability to leverage its unique core competencies. The course views the organization holistically and, as such, goes beyond the mere integration of specific organizational functions.  
**Prerequisite:** BUS 1303 or MGMT 3450, BADM 132, BADM 281, ACCT 1104 or ACCT 2204, BADM 2260 or BUS 2310  
**Prerequisite or Corequisite:** MGMT 3420  
**Must be a BBA student or have consent of the Donald School of Business.**

## Marketing

**MKT 2242-3** (BC=3)  
(45-0-0) 15 weeks  
**Marketing Research**  
Explore the complete process of marketing research by defining problems, drafting documents, collecting information, analyzing data, and presenting results for marketing problems. Conduct focus groups and surveys for local organizations.  
**Prerequisite:** MKT 1132 or by consent of the Associate Dean  
**Concurrent Corequisite:** BUS 2306  
**Antirequisite:** BADM 242  
**Equivalent:** BADM 242

**MKT 2240-3** (BC=3)  
(45-0-0) 15 weeks  
**Professional Selling and Persuasion**  
Explore the role of the salesperson. Examine the selling process, types of sales presentations, and different sales strategies. Develop an understanding of the skills necessary to be a successful salesperson., such as knowing your product, sales forecasting, finding/ retaining customers, closing sales, handling objections, and presenting sales presentations successfully.  
**Prerequisite:** MKT 1132 or by consent of the Associate Dean  
**Antirequisite:** BADM 240  
**Equivalent:** BADM 240

## Mathematics

**MATH 1202-3** (BC=4)  
(45-0-30) 15 weeks  
**Introductory Calculus I**  
Compute limits, derivatives and integrals of a variety of single-variable functions. Interpret the theoretical meaning of these tools and their use in applications. Intended for students without prior calculus experience.  
**Prerequisite:** MATH 30-1  
**Antirequisite:** MATH 203

**MATH 1203-3** (BC=3)  
(45-0-0) 15 weeks  
**Calculus I**  
Compute limits, derivatives and integrals of a variety of single-variable functions. Interpret the theoretical meaning of these tools and their use in applications. Intended for students with prior calculus experience.  
**Prerequisite:** MATH 31  
**Anit-requisite:** MATH 1202

**MATH 1204-3** (BC=3)  
(45-15-0) 15 weeks  
**Calculus II**  
Demonstrate use of advanced methods of differentiation and integration, and implement these methods to solve basic types of ordinary differential equations  
**Prerequisite:** MATH 1202 or 1203  
**Anit-requisite:** MATH 1213

**MATH 1212-3** (BC=4)  
(45-30) 15 weeks  
**Calculus I**  
Review of functions and analytic geometry. Trigonometric, logarithmic, exponential and hyperbolic functions. Inverse functions. Limits and continuity. Derivatives and their interpretation. Methods of differentiation and applications. Parametric and polar coordinates and functions.  
**Prerequisite:** Math 30-1 and 31  
**Note:** Designed for Engineering students

**MATH 1213-3** (BC=5)  
(4-2) 15 weeks  
**Calculus II**  
Integrals and areas: numerical methods and the Fundamental Theorem of calculus. Basic integration methods. Applications of integration to lengths, areas, volumes, and other physical quantities. Advanced integration methods. Differential equations. Infinite series and Taylor expansions.  
**Prerequisites:** MATH 1212  
**Note:** Designed for Engineering students

**MATH 1221-3** (BC=3)  
(45-0) 15 weeks  
**Linear Algebra I**  
Explore higher dimensional geometric spaces using vectors, matrices and transformations.  
**Prerequisite:** Math 30-1

**MATH 1223-3** (BC=3)  
(45-0-15) 15 weeks  
**Applied Linear Algebra**  
Vectors and matrices. Solution of linear equations. Equations of lines and planes. Vector spaces and bases. Determinants. Matrix algebra. Orthogonality and applications (least squares, Gram-Schmidt). Eigenvalues and eigenvectors and applications.  
**Prerequisite:** Math 1212  
**Note:** Designed for Engineering Students

**MATH 1260-3** (BC=3)  
(45-0) 15 weeks  
**Higher Arithmetic**  
Critical thinking and problem solving. Tools for problem solving. Numeration systems, system of integers and elementary number theory, modulo mathematics. Rational numbers, ratio and proportion. Introduction to statistics.  
**Prerequisite:** Math 30-1 or Math 30-2 or consent of the Department  
**Note:** This course is restricted to Elementary Education students

# Mechanical Engineering Technology

MET courses are open to Engineering Technology students only.

## MET 1020-3 (BC=3) (45-0-15) 15 weeks

### Fabrication and Manufacturing

Discuss fundamentals of different fabrications, such as welding and casting. Describe the capabilities and limitations of material removal and shaping manufacturing processes.

## MET 1103-3 (BC=3) (45-0-30/30) 15 weeks

### Technology Physics

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

## MET 1120-3 (BC=3) (45-0-0) 15 weeks

### Statics

Identify concepts of loads and moments. Establish free body diagrams, analyze forces and moments applied on machines and calculate moment of inertia, distributed loads.

Prerequisite: GET 1129

## MET 1125-3 (BC=3) (45-0-30/30) 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.

## MET 1130-2 (BC=2) (30-0-30/30) 15 weeks

### Fluid Mechanics

Practice fluid statics, manometry laws, buoyancy, forces on gates as well as Bernoulli's equation, Reynolds number, laminar and turbulent flows, energy loss and pump selection, and flow and pressure measurement methods.

Prerequisite: MET 1103, GET 1129

Corequisite: MET 1120

## MET 1140-3 (BC=3) (30-0-30) 15 weeks

### 3D CAD

Develop 3D parametric solid modelling of parts and assemblies. Generate linked drawings for parts and assemblies with required details and information. Includes overview of geometric dimensioning and tolerancing for manufacturing applications. Prerequisite: GET 1106

## MET 1155-3 (BC=4)

(45-0-0) 15 Weeks

### Thermodynamics and Heat Transfer

Employ the 1st and 2nd laws of thermodynamics. Discuss energy balance of thermodynamic cycles: Refrigeration Cycles, Heat Pumps, and Heat Engines. Discuss effect of different heat transfer mechanisms: Conduction, Convection, and Radiation.

Prerequisite: GET 1129, MET 1103

## MET 2205-3 (BC=3)

(45-0-0) 15 weeks

### Dynamics

Discuss mechanical principles of motion and forces of dynamic systems. Analyze the kinematics and kinetics of objects in translation, in addition to conservation of energy principles and applications.

Prerequisites: GET 1129, GET 1103, MET 1120

## MET 2208-3 (BC=3)

(45-0-0) 15 weeks

### Mechanical Design

Design of machine components such as gears, bearings, bolts and screws for strength requirements in consideration of various manufacturing methods.

Prerequisite: MET 2205, MET 2220

## MET 2210-2 (BC=2)

(30-0-0) 15 weeks

### Building Systems

Design building systems such as Heating, Ventilation and Air Conditioning (HVAC), fire protection, and piping/plumbing. Learn how to calculate thermal loads. Develop skills needed to interpret building system drawings, specifications and codes.

Prerequisite: MET 1130

## MET 2220-3 (BC=3)

(45-0-0) 15 weeks

### Strength of Materials

Discuss the basic concepts of strength of materials as well as stress and strain due to various loadings including mechanical and thermal loadings. Analyze mechanical system members to assess normal and shear stresses.

Prerequisites: MET 1120, GET 1131

## MET 2224-3 (BC=4)

(45-0-45/30) 15 weeks

### Reliability and Failure Analysis

Examine tools needed to perform statistical reliability analysis. Perform an engineering investigation to assess potential sources, causes and solutions for failure prevention and analysis. Employ different failure criteria to prevent overloading of mechanical systems. Compare different tools to perform non-destructive testing.

Prerequisite: GET 1130, MET 2220

## MET 2231-4 (BC=4)

(45-0-45) 15 weeks

### Robotics and Automation

Engineering design and analysis of robot arm and manipulators. Perform forward and inverse kinematics, construct Jacobean to calculate singularities and program robots to perform tasks. Install, configure, program. Use Human Machine Interfaces to link with Programmable Logic Controllers and other devices to monitor and control equipment and processes.

Prerequisites: MET 1020, GET 1131

Corequisite: MET 2205

## MET 2235-4 (BC=4)

(45-0-30) 15 weeks

### Computer Integrated Manufacturing

Explore production and manufacturing systems, materials handling systems, economics of production, production layout, group technology, flexible manufacturing. Test and simulate an assembly line using a miniature production system.

Prerequisite: MET 2231

## MET 2240-4 (BC=4)

(45-0-30) 15 weeks

### CNC Manufacturing

Describe Computer Numerical Control (CNC) machining processes and programming. Select suitable machine tools, set up correct parameters, understand machine process critical path, and carry out simulations and processes on industrial CNC machines.

Prerequisites: MET 1140, MET 1020

## MET 2258-3 (BC=3)

(45-0-0) 15 weeks

### Capstone Project

Research and compile a technical report on a technical problem. Demonstrate project management skill set for a Mechanical Engineering Technology graduate. Prerequisite: Term three course completion or consent of Associate Dean.

## MET 2265-3 (BC=4)

(45-0-15) 15 weeks

### Hydraulics and Pneumatics

Examine the concepts, design, and applications of hydraulic and pneumatic fluid power systems. Simulation of fluids circuits will be explored.

Prerequisite: MET 1130, MET 1155



## Medical Device Reprocessing

**MDR 1142-6** (BC=9)  
(400 hours) 10 weeks  
**MDR practicum**

This ten-week, full-time practicum (400 hours) provides the opportunity to apply the knowledge and skills in the Central Sterile Processing Department, Surgical Suite and Day Procedures. This preceptor-based practicum is offered at Red Deer Regional Hospital or an alternate, program approved medical facility. Emphasis is placed on developing skills to safely perform decontamination, assembly, function testing, care, handling and sterilization of surgical instruments and equipment. This course was previously referred to as CSP 1142.

**MDR 1150-3** (BC=3)  
(45-0-0 hours) 15 weeks  
**Medical Terminology/Anatomy and Physiology**

This course covers the study of prefixes, suffixes, and word roots from which most medical terms are derived, taught in combination with anatomy and physiology, to understand the structure and function of organs and systems in the human body. This course was previously referred to as CSP 1150.

**MDR 1151-2** (BC=2)  
(22-22-0) 15 weeks  
**Introduction to Computers**

This course provides an introduction to personal computers that focuses on three primary Microsoft applications: Word, Excel, and PowerPoint. Students review the components and operation of microcomputers and gain a working knowledge of the operating system, word processing, spreadsheet, and other software applications. This course was previously referred to as CPU 1151.

**MDR 1160-6** (BC=6)  
(90-0-0 hours) 15 weeks

### Practices Surgical Instrument Processing

This course equips students with a thorough knowledge of the complexities, precautions, and techniques associated with microbiology, infection control, disinfection, and sterilization technology. Students will develop the skills necessary to perform the technical functions related to the care, handling, disassembly, and assembly of medical equipment and surgical instruments. This course was previously referred to as CSP 1160.

## Medical Lab Assistant

**MLA 1105-1** (BC=1)  
(15-0-0) 5 weeks  
**Infection Control**

Explore how microorganisms are transmitted, and apply routine practices and standard precautions to protect against transmission or exposure to disease.

**MLA 1114-3** (BC=3)  
(45-0-0) 15 weeks

### Integrated Medical Terminology

Examine the component parts of medical terminology used to communicate in the healthcare field. Apply medical terminology as it relates to the structure and function of human body systems. Identify the laboratory tests that are associated with pathological conditions and collected by the Medical Laboratory Assistant.

**MLA 1115-5** (BC=5)  
(240 hours of practicum) 6 weeks  
**Clinical Practicum**

Acquire practical experience within acute care facilities and collection sites to obtain MLA competencies set by the Canadian Society of Medical Laboratory Science (CSMLS).

Prerequisites: INTP 1104, MLA 1105, MLA 1114, MLA 1117, MLA 1119, MLA 1121, MLA 1122, MLA 1123, MLA 1124 and MLA 1125

**MLA 1117-4** (BC=4)  
(45-0-30) 15 weeks  
**Reagent Preparation and Medical Lab Testing**

Prepare reagents for use in a medical laboratory. Perform basic laboratory procedures in hematology, histology, cytology and microbiology departments.

**MLA 1119-5** (BC=4)  
(45-0-30) 15 weeks  
**Specimen Collection and Handling**

Examine the suitability, collection, handling and transportation of lab specimens in both theoretical and practical contexts.

**MLA 1121-4** (BC=6)  
(45-0-30) 15 weeks

### Quality Management and Urinalysis

Examine the role of quality control and quality assurance in the laboratory. Evaluate the physical and chemical characteristics and microscopic components of urine specimens.

**MLA 1122-1** (BC=2)  
(15-0-10) 6 weeks  
**Electrocardiograms**

Prepare patients, identify artifacts and record electrocardiogram tracings using electrocardiograph equipment.

**MLA 1123-1** (BC=2)

(15-0-10) 6 weeks

### Professional Practice

Recognize how the healthcare system operates, the legislation affecting healthcare professionals and the roles of unions and professional associations. Practice patient relational skills within a simulated clinical environment.

Prerequisites: INTP 1104, MLA 1114, MLA 1117, MLA 1119, MLA 1121

Corequisite: MLA 1122

**MLA 1124-1** (BC=2)  
(15-0-10) 6 weeks

### Specimen Processing

Collect and process laboratory specimens. Identify and address pre-analytical errors through documentation and the use of laboratory information systems.

Prerequisites: INTP 1104, MLA 1114, MLA 1117, MLA 1119, MLA 1121

**MLA 1125-1** (BC=1)  
(40 practicum hours)

### Simulated Practicum

Acquire practical experience within simulated labs to obtain MLA competencies set by the Canadian Society of Medical Laboratory Science (CSMLS) prior to clinical practicum start.

Corequisites: MLA 1117

## Motion Picture Arts

**MPA 403-15** (BC=10)  
(0-35) 15 weeks

### Applied Motion Picture Practicum I

The first term of a two-term mentored practicum. This involves: 1) The production of a substantial motion picture project (including concept, production, postproduction, marketing and promotion) with access to Polytechnic equipment and facilities; and/or 2) work experience in the motion picture industry, with a combination of paid work, auditions, workshops, etc. accumulated under the guidance of MPA staff.

Prerequisite: Completion of 3rd year of the MPA program

**MPA 404-15** (BC=10)  
(0-35) 15 weeks

### Applied Motion Picture Practicum II

The second term of a two-term mentored practicum. This involves: 1) The production of a substantial motion picture project (including concept, production, postproduction, marketing and promotion) with access to Polytechnic equipment and facilities; and/or 2) work experience in the motion picture industry, with a combination of paid work, auditions, workshops, etc. accumulated under the guidance of MPA staff.

Prerequisite: MPA 403



## Multidisciplinary Studies

### MDST 3001-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Globalization

Examine selected topics in Globalization. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 3002-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Justice, Power, Policy

Examine selected topics in Justice, Power, and/or Policy. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 3003-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Mind, Self, Identity

Examine selected topics in Justice, Power, and/or Policy. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 3004-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Science and Technology

Examine selected topics in science, society, or technology studies. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 3005-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Cultural Studies

Examine selected topics in Cultural Studies. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 3006-3 (BC=3) (3-0-0) 15 weeks

#### Topics in Population, Health, Wellness

Examine selected topics in Population Health and Wellness. Approaches to the topic will vary, but may involve social scientific, humanistic and aesthetic perspectives. Students will approach the topic from a multidisciplinary perspective building on prior knowledge. This course may be repeated for credit.  
**Prerequisite:** 3rd Year Standing and ENGL 1219

### MDST 4001-3 (BC=3) (3-0-0) 15 weeks

#### Multidisciplinary Capstone I

Investigate a challenging problem or question through the application of research skills and Humanities and Social Sciences perspectives and concepts. Develop ideas or solutions through sustained inquiry and collaborative teamwork. Reflect on the integration of course work, and prepare for future careers, jobs and or graduate work.  
**Prerequisite:** 4th Year Standing (Capstone must be taken in final year)

### MDST 4002-3 (BC=3) (3-0-0) 15 weeks

#### Multidisciplinary Capstone II

Analyse a challenging problem or question through the application of research skills and Humanities and Social Sciences perspectives and concepts. Apply ideas or solutions through sustained inquiry and collaborative teamwork. Reflect on the integration of course work, and prepare for future careers, jobs a/o graduate work.  
**Prerequisite:** MDST 4001: Multidisciplinary Capstone I

## Music

Not all courses listed are offered every semester or every year. Check Course Timetable for availability.

### Performance Ensembles (BC=2) (2 cr/semester) (0-45) 15 weeks

The study and performance of standard and current literature appropriate to the specific vocal or instrumental ensemble. Membership is limited and is by audition. Scheduled public performances are generally a part of each ensemble experience. All ensembles are offered on a corequisite basis only, eg. students must be registered in the same ensemble sequence for both Fall and Winter semesters (eg. 201 Fall/202 Winter), unless special permission is granted by the Department. The first semester is normally prerequisite to the second.

**Note:** All ensembles are open (by audition) to students from all departments in the Polytechnic  
**Note:** \*Check the Alberta Transfer Guide for specific transfer information for MUSE courses marked with an asterisk\*

### MUSI 1233-3 (BC=3) (45-0) 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 1303-3 (BC=3) (45-0) 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.

## Nursing

Open to Nursing students only.

### NURS 1206-4 (BC=4) (30-0-30) 15 weeks

#### Foundations for Success in Nursing

The course develops an understanding of self as a learner in a health professions context. It explores the foundations of professional nursing, relational practice and therapeutic communication. The course promotes reflection on personal perspectives and experiences to understand one's own attitudes, beliefs, and values. It fosters resilience and explores strategies for self-management and growth.

**Prerequisites:** None

**Corequisites:** NURS 1236, NURS 1215, NURS 1230

**Note:** A minimum grade of C+ is required to receive credit in the Bachelor of Science Nursing program.

### NURS 1207-3 (BC=3) (45-0-0) 15 weeks

#### Foundations of Nursing I

The course explores the meanings of health and healing. It highlights the diversity of beliefs, values, and perceptions of health. The course introduces the Canadian Health Care System, conceptual frameworks of health promotion, determinants of health, disease and injury prevention, and primary health care. The focus is on the nurse/client relationship in a relational practice context.

**Prerequisites:** NURS 1236, NURS 1215, NURS 1230 and NURS 1206

**Corequisites:** NURS 1208

**Note:** A minimum grade of C+ is required to receive credit in the Bachelor of Science Nursing program.

**NURS 1208-4 (BC=5)****(30-15-45) 15 clinic hrs total/15 weeks****Health Assessment and Nursing Process**

The focus is on the health assessment of the adult, and expected health assessment findings throughout the lifespan. The course provides a beginning foundation of the nursing process as framework for developing assessment skills and use of clinical technologies necessary for determining client health status and provision of care.

**Prerequisites:** NURS 1236, NURS 1215, NURS 1230 and NURS 1206

**Corequisites:** NURS 207

**Note:** A minimum grade of C+ is required to receive credit in the Bachelor of Science Nursing program.

**NURS 1209-3 (BC=3)****(45-0-0) 15 weeks****Innovation, Systems Thinking and Leadership in Healthcare**

An introduction to the concepts of innovation, health technology, systems thinking and relational leadership in a healthcare context. The course develops the knowledge, skills and values that foster personal capacity for innovation and relational leadership.

**Prerequisites:** NURS 1206

**Corequisites:** None

**Note:** A minimum final grade of C is required to receive credit in the Bachelor of Science Nursing program.

**NURS 1236-3 (BC=3)****(45-0) 15 weeks****Medical Microbiology**

Medical microbiology concepts for nursing students. Basic information on the identification of micro-organisms and their control, as well as disease principles, epidemiology, and the immune system with consideration to the health care perspective.

**Note:** A minimum grade of C+ is required to receive credit in the Bachelor of Science Nursing program.

**NURS 2217-3 (BC=3)****(45-0-0) 15 weeks****Foundations of Nursing II**

The focus is on evidence-informed assessment and management of health challenges in both episodic and chronic illness.

**Note:** Credit may be obtained for only one of NURS 239 or NURS 2217.

**Prerequisite:** NURS 1236, NURS 1231, NURS 1207, NURS 1208.

**Corequisite:** NURS 2250, NURS 2251

**NURS 2237-3 (BC=3)****(45-0-0) 15 weeks****Foundations of Nursing III**

The focus on evidence-informed assessment and management of health challenges in both episodic and chronic illness. Aligns with concepts from NURS 2252 and NURS 2253 with intentional clinical learning activities.

**Note:** Credit may be obtained for only one of NURS 351 or NURS 2237.

**Prerequisite:** NURS 2250, NURS 2217 and NURS 2251

**Corequisite:** NURS 2252, NURS 2253

**NURS 2250-6 (BC=6)****(15-45-208) 15 weeks, 208 clinical hours****Introductory Acute Care Nursing Practice I**

This practicum in acute care settings develops beginning knowledge, skills, and abilities to provide safe ethical patient care for adults with episodic and chronic health challenges. Intentional clinical learning activities integrate evidence-informed knowledge NURS 2217 and NURS 2251. The focus is on assessment, clinical reasoning, care planning and documentation in paper and digital formats.

**Note:** Credit may be obtained for only one of NURS 240 or NURS 2250.

**Prerequisite:** NURS 1215, NURS 1230, NURS 1231, NURS 1236, NURS 1207 and NURS 1208.

**Corequisite:** NURS 2217, NURS 2251

**NURS 2251-3 (BC=3)****(45-0-0) 15 weeks****Pharmacology I**

The course explores selected episodic and chronic health alterations and the related pharmacological concepts. The focus is on applying foundational knowledge of pathophysiology and pharmacology to evidence-informed nursing practice.

**Note:** Available only to students in the BScN program. Credit may be obtained for only one of NURS 308 or NURS 2251 and NURS 2252.

**Prerequisite:** NURS 1231, NURS 1236 and NURS 1208

**Corequisite:** NURS 217 and NURS 250

**NURS 2252-3 (BC=3)****(45-0-0) 15 weeks****Pharmacology II**

The course explores selected episodic and chronic health alterations and the related pharmacological concepts. The focus is on applying foundational knowledge of pathophysiology and pharmacology to evidence-informed nursing practice.

**Note:** Available only to students in the BScN program. Credit may be obtained for only one of NURS 308 or NURS 2251 and NURS 2252.

**Prerequisite:** NURS 2251

**Corequisite:** NURS 2237 and NURS 2253

**NURS 2253-6 (BC=6)****(15-45-208) 15 weeks, 208 clinical hours****Introductory Acute Care Nursing Practice II**

This practicum in acute care settings further develops knowledge, skills, and abilities to provide safe ethical patient care for adults with episodic and chronic health challenges. Intentional clinical learning activities integrate evidence-informed knowledge from NURS 2237 and NURS 2252.

**Note:** Credit may be obtained for only one of NURS 352 or NURS 2253.

**Prerequisite:** NURS 2217, NURS 2250, and NURS 2251

**Corequisite:** NURS 2252 and NURS 2237

**NURS 2301-3 (BC=3)****(45-0-0) 15 weeks****Evidence Informed Nursing Practice**

The course provides a hands on approach to evidence-informed nursing practice. This includes formulating clinical questions, systematic searching of electronic databases, reading, interpreting and critically appraising health research.

Emphasis is on developing thinking and information literacy skills necessary to be an astute research consumer and using evidence to inform clinical decision making.

**Prerequisite:** NURS 2304, NURS 2217, NURS 2250

**NURS 2304-3 (BC=3)****(45-0-0) 15 weeks****Statistics and Knowledge Management**

An introduction to reading, understanding and interpreting commonly used statistics in published health services research.

Provides a hands on approach to understanding measurement, sampling, and common statistical analysis techniques through critical appraisal of results from published health care studies and statistical analysis techniques commonly used in health care research. It introduces the concept of information literacy regarding statistical techniques used to interpret health data in meaningful ways.

**NURS 2305-3 (BC=3)****(30-30) 15 weeks****Nursing Transition**

Develop skills and knowledge with an emphasis on critical inquiry and Registered Nurse scope or practice for the transition into Year 3 of the Bachelor of Science in Nursing Program.

**NURS 3360-6 (BC=6)**  
*(18-144-18) 6 weeks, 144 Clinical hours*  
**Community Nursing Through the Lifespan**  
 The course covers theories, ethics and evidence-informed approaches to community health nursing including primary health care, population health, health maintenance and promotion, and disease and injury prevention. It includes exploration of concepts of community based assessment, planning, intervention and evaluation with community-as-client. The practicum portion of the course includes a variety of community settings. Nursing practice will include health assessment and interventions for clients throughout the lifespan.  
**Prerequisites:** NURS 2252, NURS 2237, NURS 2253, NURS 2301 or with approval from the program  
**Corequisites:** None

**NURS 3361-6 (BC=6)**  
*(18-144-18) 6 weeks, 144 Clinical hours*  
**Advanced Acute Care Nursing Practice I**  
 This acute care practicum builds on the concepts and intentional clinical learning from previous courses. This focus is on integrating prior learning to move towards providing comprehensive patient and family-centred care and socialization to the role of the nurse in an acute care setting.  
**Prerequisites:** NURS 2252, NURS 2237, NURS 2253, NURS 2301 or with approval from the program  
**Corequisites:** None

**NURS 3362-3 (BC=3)**  
*(45-0-0) 15 weeks*  
**Health Policy, Health Care Organizations, Change Management**  
 The course builds upon the personal leadership foundations of previous courses. It explores the organization of health care systems, concepts of healthcare management and care delivery models. The course provides an overview of healthcare policy and the roles of the nurse in influencing health policy, and facilitating change within healthcare systems.  
**Prerequisite:** NURS 1209

**NURS 3363-6 (BC=6)**  
*(18-144-18) 6 weeks, 144 Clinical hours*  
**Mental Health and Wellness in Nursing**  
 This course in mental health provides opportunities to acquire knowledge, skills, attitudes to promote wellness, through safe, ethical nursing practice, in a variety of contexts. The focus will be mental well-being throughout the lifespan. Learning experiences will provide students an understanding of the mental health nursing process.  
**Prerequisite:** NURS 2252, NURS 237, NURS 2253, NURS 2301 or with approval from the program  
**Corequisites:** None

**NURS 3364-3 (BC=6)**  
*(18-144-18) 6 weeks, 144 Clinical hours*  
**Advanced Acute Care Nursing Practice II**  
 The course provides opportunities for participants to integrate, consolidate and expand concepts from previous learning to advance their professional nursing practice. Participants have the opportunity to consolidate learning and advance their clinical decision-making in a variety of acute care settings.  
**Prerequisite:** NURS 3361

**NURS 3365-3 (BC=3)**  
*(45-0-0) 15 weeks*  
**Leadership in Nursing and Interprofessional Practice**  
 The course prepares learners with the knowledge and capabilities for working within complex interprofessional environments in healthcare. It focuses on six key interprofessional competencies (patient/client/family/community-centred care, interprofessional communication, role clarification, team functioning, interprofessional conflict resolution and collaborative leadership). The course culminates with the application of knowledge to authentic scenarios and demonstration of effective collaborate teamwork.  
**Prerequisite:** NURS 3362

**4th Year University of Alberta Degree Completion Nursing Courses (from the University of Alberta Calendar)**  
 Note: Students are required to complete all 3rd year courses in order to proceed to the 4th year of the program.

**NURS 4422-3 (BC=3)**  
*(45-0-0) 15 weeks*  
**Contemporary Issues in Healthcare Ethics and Law**  
 The course examines a range of ethical theories, relevant research and approaches to ethical decision-making to critically debate real world problems in health care. Students will develop an understanding of health law and health care ethics and of the relationship between law and ethics.  
**Prerequisite:** NURS 3365  
**Corequisite:** NURS 4425, INTD 4420

**NURS 4425-6 (BC=6)**  
*(28-0-192) 14 weeks, 192 clinical hours*  
**Nursing Leadership in a Focus Area**  
 This preceptored leadership experience provides opportunity to consolidate prior learning and develop confidence and competence as students prepare to transition to the role of the Registered Nurse. The focus is on collaboration with interprofessional teams, systems thinking, and healthcare system change. Students evaluate the influence of evidence, policy, and legislation and decision-making in complex health systems using a relational practice lens. Students demonstrate and enhance their own relational capacity as leaders and innovators for 21st Century Canadian healthcare. The course culminates in a capstone leadership project.  
**Prerequisites:** All courses in the program except NURS 422, NURS 4485 and INTD 4420  
**Corequisite:** NURS 4422 and INTD 4420

**NURS 4485-12 (BC=12)**  
*(28-350-14) 14 weeks, 340 clinical hours*  
**Nursing Practice in a Focused Area**  
 The course provides an opportunity to consolidate learning and preparation to assume the role of the BScN graduate via a preceptored clinical experience. The area of focus may be a particular setting of practice, client population, or health challenge or trend. It provides opportunities to demonstrate the integration of prior learning through the development of a comprehensive care planning assignment. The preceptorship is designed in collaboration with faculty and is based on practicum area availability.  
**Prerequisite:** All courses in the program except NURS 4422, NURS 4425 and INTD 4420  
**Corequisite:** None

## Occupational and Physical Therapist Assistant

**OPTA 1112-4 (BC=4)**  
*(45-0-30) 15 weeks*  
**Healthcare and Rehabilitation**  
 Examine the Canadian Health Care system and how rehabilitation fits within it. Emphasis on occupational therapy, physical therapy and the role of the assistant.

**OPTA 1114-3 (BC=3)**  
*(45-0-0) 15 weeks*  
**Concepts in Mental Health**  
 Discuss mental health and illness from a rehabilitation perspective. Explain characteristics of common psychiatric disorders through a client-centered approach.

**OPTA 1117-5** (BC=5)  
(45-30-30) 15 weeks  
**Foundational Rehabilitation Skills**  
Apply basic physical therapist assistant and occupational therapist assistant skills to enhance client function.  
**Corequisites:** INTP 1102, INTP 1104, and OPTA 1112

**OPTA 1118-3** (BC=3)  
(30-15-30) 15 weeks  
**Functional Anatomy**  
Explain the structure and function of the musculoskeletal system with application to rehabilitation.  
**Prerequisite:** INTP 1102.

**OPTA 1122-3** (BC=3)  
(45-0-0) 15 weeks  
**Common Conditions and Function**  
Explain conditions commonly encountered in rehabilitation practice.  
**Prerequisite:** INTP 1102, OPTA 1112

**OPTA 1130-4** (BC=4)  
170 hours, 5 weeks  
**Practicum I**  
Apply beginner OTA and PTA knowledge and skills in the professional rehabilitation environment.  
**Prerequisites:** OPTA 1114, KNSS 2307, COMM 1250, OPTA 1118, OTA 1105, PTA 1100, and OPTA 1122

**OPTA 2204-2** (BC=2)  
(30-0-0) 15 weeks  
**Sensation, Perception and Cognition**  
Discuss sensory, perceptual and cognitive impairments encountered in rehabilitation practice with a focus on development of therapeutic tools and strategies.  
**Prerequisites:** OPTA 1122, KNSS 2307 and OPTA 1114

**OPTA 2210-3** (BC=3)  
(45-0-0)  
**Professional Practice**  
Explore ethical issues in rehabilitation. Apply clinical reasoning to various practice situations. Develop skills and resources in preparation for employment.  
**Prerequisites:** OPTA 1130, PTA 1100, and OTA 1105  
**Corequisites:** PTA 2200 and OTA 2205

**OPTA 2215-2** (BC=2)  
(30-0-0) 15 weeks  
**Communication Impairment**  
Recognize communication challenges that inhibit effective communication. Enhance communication with people who have speech and language impairment.

**OPTA 2222-3** (BC=3)  
(45-0-0) 15 weeks  
**Complex Conditions and Function**  
Explain more complex conditions encountered in rehabilitation practice.  
**Prerequisites:** OPTA 1122

**OPTA 2230-4** (BC=4)  
(170 hours)  
**Practicum II**  
Apply intermediate OTA and PTA knowledge and skills in the professional rehabilitation environment.  
**Prerequisite:** OPTA 1130, OTA 2205, PTA 2200 and OPTA 2210

**OPTA 2330-4** (BC=4)  
(170 hours)  
**Practicum III**  
Apply advanced OTA and PTA knowledge and skills in the professional rehabilitation environment.  
**Prerequisites:** OPTA 2230

**OTA 1105-3** (BC=3)  
(30-15-30) 15 weeks  
**OTA Skills I**  
Apply intermediate occupational therapist assistant skills to enhance client function.  
**Prerequisite:** INTP 1102, INTP 1104, OPTA 1112, and OPTA 1117.

**OTA 2205-3** (BC=3)  
(30-15-30) 15 weeks  
**OTA Skills II**  
Apply advanced occupational therapist assistant skills to enhance client function.  
**Prerequisites:** OTA 1105, OPTA 1122 and OPTA 1114

**PTA 1100-3** (BC=3)  
(30-15-30) 15 weeks  
**PTA Skills I**  
Apply intermediate physical therapist assistant skills to enhance client function and mobility.  
**Prerequisites:** INTP 1102, INTP 1104, OPTA 1112, and OPTA 1117

**PTA 2200-3** (BC=3)  
(30-15-30) 15 weeks  
**PTA Skills II**  
Apply advanced physical therapist assistant skills to enhance client function and mobility.  
**Prerequisites:** PTA 1100, OPTA 1122, OPTA 1118 and KNSS 2307

## Pharmacy Technician

Open to Pharmacy Technician students only.

**PHTD 1100-3** (BC=3)  
(45-0-0) 15 weeks  
**Professional Role and Ethics**  
Examine components and determinants of health, the Canadian health care system, the role of the pharmacy technician and other pharmacy staff members and to explore ethics, decision making, scope of practice, professionalism, and learning practices.

**PHTD 1104-1** (BC=1)  
(15-0-0) 15 weeks  
**Medical Terminology**  
Guide the student through the proper use and interpretation of medical terminology, abbreviations, and symbols commonly used in the health care system.

**PHTD 1105-2** (BC=2)  
(30-0-0) 15 weeks  
**Pharmacology Fundamentals**  
Explore drug classifications, drug naming, drug mechanism of actions, pharmacological terminology, drug approval process in Canada, routes of administration and dosage forms, toxicology, drug stability and the storage and disposal of pharmaceuticals.

**PHTD 1110-3** (BC=3)  
(45-0-0) 15 weeks  
**Foundations of Pharmacy**  
Explore concepts central to pharmacy practice such as interpreting prescription information, pricing, third party billing, pharmacy records, labelling prescriptions, preventing medication errors, using references, inventory management and merchandising.

**PHTD 1115-4** (BC=4)  
(60-0-0) 15 weeks  
**Pharmacy Calculations**  
Accurately perform calculations applicable to pharmacy practice.

**PHTD 1120-3** (BC=3)  
(45-0-0) 15 weeks  
**Jurisprudence**  
Introduce and apply legislation and standards of practices relevant to pharmacy practice in Alberta.  
**Prerequisite:** PHTD 1100, PHTD 1105 and PHTD 1110

**PHTD 1125-3** (BC=3)  
(45-0-0) 15 weeks  
**Pharmacotherapeutics I**  
Examine conditions and medications used in the treatment of conditions affecting the immune system, nervous system, respiratory system and infections.  
**Prerequisite:** INTP 1102, INTP 1104, PHTD 1100, PHTD 1105, PHTD 1110

**PHTD 1130-3** (BC=3)  
(45-0-0) 15 weeks  
**Pharmacy Computer Systems**  
Use a pharmacy computer system to input data, process prescriptions and perform other pharmacy related tasks.  
**Prerequisite:** PHTD 1100, PHTD 1105, PHTD 1110, PHTD 1115 and must successfully complete keyboard testing prior to Winter term.  
**Corequisite:** PHTD 1120

<b>PHTD 1135-3</b> (BC=3) (15-0-60) 15 weeks <b>Dispensing I</b> Dispense medications in a laboratory setting for a variety of medications, dosage forms and legal classifications. <b>Prerequisite:</b> PHTD 1100, PHTD 1105, PHTD 1110, PHTD 1115 and INTP 1104. <b>Corequisite:</b> PHTD 1120 and PHTD 1130	<b>PHTD 2225-3</b> (BC=3) (45-0-0) 15 weeks <b>Pharmacotherapeutics II</b> Examine conditions and medications used in the treatment of conditions affecting the gastrointestinal, renal, cardiovascular and musculoskeletal system. <b>Prerequisite:</b> PHTD 1140	<b>PHIL 1202-3</b> (BC=3) (45-0-0) 15 weeks <b>Knowledge and Reality</b> Discover philosophy via exploration and critical discussion of selected philosophical classics and contemporary works. Emphasis will be placed on issues in metaphysics and epistemology, such as the nature and extent of human knowledge and the nature of reality and our place in it
<b>PHTD 1140-1</b> (BC=1) (15-0-0) 15 weeks <b>Preparation for Practice I</b> Assess, reflect and receive formative feedback upon the student's first year performance in the program. <b>Prerequisites:</b> PHTD 1100, PHTD 1105, PHTD 1110, PHTD 1115, PHTD 1120, PHTD 1125, PHTD 1130, PHTD 1135, INTP 1102, INTP 1104 and PHTD 1104	<b>PHTD 2226-3</b> (BC=3) (45-0-0) 15 weeks <b>Pharmacotherapeutics III</b> Examine conditions and medications used in the treatment of conditions affecting the endocrine, dermatological, ophthalmic and otic systems as well as cancer treatments and other miscellaneous medications. <b>Prerequisite:</b> PHTD 2225	<b>PHIL 1221-3</b> (BC=3) (45-0-45) 15 weeks <b>Critical Thinking</b> Discover methods and principles for analyzing reasoning as it occurs in everyday life and the sciences. Explore informal fallacies, scientific reasoning and theory-building, elementary logic, deductive and inductive reasoning, cognitive biases, and the distinction between science and pseudo-science.
<b>PHTD 2200-3</b> (BC=4) (45-15-0) 15 weeks <b>Non-prescription and Complementary Therapies</b> Examine conditions and medications that can be treated/provided over the counter. <b>Prerequisite:</b> PHTD 1140	<b>PHTD 2231-4</b> (BC=4) (160 practicum hours) 4 weeks <b>Community Pharmacy Practicum</b> Obtain practical experience within a community (retail) pharmacy as a developing pharmacy technician. <b>Prerequisites:</b> PHTD 2226, PHTD 2210, PHTD 2205, PHTD 2220, and PHTD 2240	<b>PHIL 1222-3</b> (BC=3) (45-0) 15 weeks <b>Symbolic Logic I</b> Basic concepts of logic: consistency, logical truth, entailment, equivalence. Symbolization of natural language inferences using sentential and predicate logic. Formal syntax of sentential and predicate logic. Natural deduction for sentential logic. Introduction to the semantics and metatheory of sentential logic: truth-tables, truth-functional completeness, soundness and completeness of the natural deductive system, compactness.
<b>PHTD 2205-3</b> (BC=3) (30-0-45) 15 weeks <b>Non-sterile compounding</b> Compound and dispense a variety of non-sterile pharmaceuticals. <b>Prerequisite:</b> PHTD 1140	<b>PHTD 2232-5</b> (BC=5) (200 practicum hours) 5 weeks <b>Hospital Pharmacy Practicum</b> Obtain practical experience within a hospital/institutional pharmacy as a developing pharmacy technician. <b>Prerequisites:</b> PHTD 2226, PHTD 2210, PHTD 2205, PHTD 2220, PHTD 2240	<b>PHIL 2300-3</b> (BC=3) (45-0) 15 weeks <b>Professional Ethics</b> This course is designed to acquaint students with the range of ethical questions and issues that arise for practitioners of various professions. Students will develop their critical and analytical skills in their own arguments designed to appraise and develop good ethical positions on a variety of issues and problems common to many professions, problems like: professional responsibility, the use of codes of ethics in making good ethical decisions, privacy and client confidentiality, professional client-practitioner relationships, issues of public and private ethical responsibility.
<b>PHTD 2210-4</b> (BC=4) (30-0-60) 15 weeks <b>Aseptic Technique</b> Prepare a variety of sterile compounds in a safe and efficient manner using principles of aseptic technique. <b>Prerequisites:</b> PHTD 2200, PHTD 2225, PHTD 2235, PHTD 2215	<b>PHTD 2235-4</b> (BC=4) (15-0-75) 15 weeks <b>Dispensing II</b> Dispense medications, perform pharmacy related tasks and practice workplace communication skills in a laboratory setting. This course continues to build upon the skills gained in Dispensing I. <b>Prerequisite:</b> PHTD 1140 <b>Corequisite:</b> PHTD 2225	<b>PHIL 2301-3</b> (BC=3) (45-0-0) 15 weeks <b>Epistemology</b> Examine the nature, origin, methods, and limits of knowledge focusing on the rational justification of belief, skepticism, and the role of perception, memory, and reasons as sources of knowledge. Additional topics may include social epistemology, standpoint epistemology, relativism, religious epistemology, or the epistemology of science.
<b>PHTD 2215-3</b> (BC=3) (30-0-30) 15 weeks <b>Hospital / Institutional Practice</b> Discuss the practice of pharmacy in institutional settings and perform tasks required of a pharmacy technician employed in this practice setting. <b>Prerequisite:</b> PHTD 1140	<b>PHTD 2240-3</b> (BC=3) (45-0-0) 15 weeks <b>Preparation for Practice II</b> Prepare and assess student to transition into role of pharmacy technician prior to practicum placements. <b>Prerequisites:</b> PHTD 2200, PHTD 2225, PHTD 2215, PHTD 2235 <b>Corequisites:</b> PHTD 2226, PHTD 2210, PHTD 2205, PHTD 2220	
<b>PHTD 2220-1</b> (BC=1) (15-0-0) 15 weeks <b>Community Health Project</b> Propose and complete a health promotion project in the community within the pharmacy technician role and evaluate the effectiveness upon completion. <b>Prerequisites:</b> PHTD 2200, PHTD 2225, PHTD 2215, PHTD 2235	<b>Philosophy</b>	
	<b>PHIL 1201-3</b> (BC=3) (45-0-0) 15 weeks <b>Values and Society</b> Discover philosophy via exploration and critical discussion of selected philosophical classics and contemporary works. Emphasis will be placed on questions of moral and other values, and on the nature of society and justice.	



**PHIL 2319-3 (BC=3)**

(45-0-0) 15 weeks

**Philosophy of Law**

Explore the historical and theoretical foundations of the concepts that ground the Canadian legal system including the foundations of legal authority, the nature of the law, the relationship between law and morality, theories of jurisprudence, theories of statutory interpretation, and theories of punishment, rights, and justice.

**PHIL 2321-3 (BC=3)**

(45-0-0) 15 weeks

**Metaphysics**

Examine questions concerning the nature of reality. Topics may include free will, action, causation, personal identity, the mind body problem, appearance and reality, time and space, existence, and possibility and necessity.

**PHIL 2323-3 (BC=3)**

(45-0-0) 15 weeks

**Philosophy of Mind**

Investigate the nature of mind, consciousness, cognition, perception, emotion, action, personal identity, memory, imagination, and the relationship between mind and body.

**PHIL 2341-3 (BC=3)**

(45-0-0) 15 weeks

**Ancient Philosophy**

Survey the work of ancient philosophers with a focus on Plato and Aristotle. Pre-Socratic, Hellenistic, and Roman philosophers will also be discussed.

**PHIL 2345-3 (BC=3)**

(45-0-0) 15 weeks

**Early Modern Philosophy**

Survey philosophy of the 17th and 18th centuries. Consider the work of a selection of philosophers from Descartes through Kant.

**PHIL 2348-3 (BC=3)**

(45-0-0) 15 weeks

**Gender and Sexuality**

Investigate social and political issues arising from a philosophical analysis of gender and human sexuality. Explore feminist theories of knowledge, ethics, metaphysics, social and political theory and science.

**PHIL 2355-3 (BC=3)**

(45-0-0) 15 weeks

**Philosophy of the Environment**

Investigate issues arising from our relationship to other species and the natural environment. Topics may include: obligations to future generations and the environment, our obligations to non-human animals, climate change and pollution, resolving conflicts between environmental and economic priorities, population policy and biodiversity.

**PHIL 2357-3 (BC=3)**

(45-0) 15 weeks

**Philosophy of Religion**

The concept of religion. Arguments for and against the existence of God. Meaning and intelligibility in religious language.

**PHIL 2364-3 (BC=3)**

(45-0-0) 15 weeks

**Philosophy of Science**

Examine central issues in philosophy of science. Investigate the nature of scientific inquiry, the difference between science and pseudo-science, the epistemic status of scientific claims, explanations, theories, confirmation, scientific progress, gender and racial bias in the sciences, and the limits of science.

**PHIL 2383-3 (BC=3)**

(45-0-0) 15 weeks

**Philosophy of Fiction**

Examine selected philosophical issues, theories, and problems as they find expression in various media such as: literature, film, television programs, video-games, graphic novels, and music.

**PHIL 2386-3 (BC=3)**

(45-0) 15 weeks

**Bioethics**

Concepts and issues central to health care knowledge and practice. Rights and responsibilities of patients and health care personnel. Passive and active euthanasia. Abortion. Medical research and experimentation. Disclosure of diagnosis and risks. Death and suffering.

**PHIL 2399-3 (BC=3)**

(45-0-0) 15 weeks

**Technology and Computing**

Explore ethical, legal, and social issues arising from contemporary computing and information technology. Topics may include privacy, intellectual property, data management, security and surveillance, artificial intelligence, algorithm bias, artificial intelligence, machine-learning, globalization and regulation/policy issues, file-sharing, cyborgs, social media's impact on politics, media, identity, and culture.

## Physical Education and Sport Studies

See listings under "Kinesiology and Sports Studies," page 36.

## Physics

**PHYS 1205-3 (BC=4)**

(45-0-45) 15 weeks

**Introductory Physics I**

Apply non-calculus quantitative methods to the study of the kinematic and dynamic properties of particles and bodies in motion while examining the concepts of forces, work and energy, momentum, and rotation. **Prerequisite:** MATH 30-1; PHYSICS 30 strongly recommended **Antirequisite:** PHYS 1241

**PHYS 1226-3 (BC=4)**

(45-0-45) 15 weeks

**Introductory Physics II**

Apply non-calculus quantitative methods to the study of the fluid mechanics, electromagnetism, thermodynamics and nuclear physics while exploring the fundamental properties of light and matter. **Prerequisite:** PHYS 1205 **Anti requisites:** PHYS 1247 and PHYS 1269

**PHYS 1241-3 (BC=4)**

(45-15-45) 15 weeks

**Mechanics**

Apply calculus to the study of the kinematic and dynamic properties of particles and bodies in motion while examining the concepts of forces, work and energy, momentum, rotation and special relativity. **Prerequisite:** Physics 30 and Math 30-1. **Corequisite:** MATH 1202 or 1203 or 1212 **Antirequisite:** PHYS 1205

**PHYS 1247-3 (BC=4)**

(45-15-45) 15 weeks

**Waves, Optics and Thermal Physics**

Apply calculus to the study of waves, fluids, optics and thermodynamics while discovering the fundamental properties of light and matter. **Prerequisite:** PHYS 1241 or ENPH 1231 **Corequisite:** MATH 1204 or 1213 **Antirequisite:** PHYS 1226 and PHYS 1269

**PHYS 1269-3 (BC=4)**

(45-15-45/30) 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 30-1 and 31 **Corequisites:** MATH 1202 or 1203 or 1212. **ENGG 1230**  
**Note:** You can have credit in one of PHYS 1207, 1247, or 1269.  
**Note:** For engineering students only.

## Physiology

### **PSIO 2258-3 (BC=3)** (45-0-0) 15 weeks

#### **Elementary Physiology I**

Essentials of human physiology focusing on systemic functions in the human body with emphasis on systems that respond and adapt to exercise stress. Topics will include the cardiovascular, respiratory, musculoskeletal, nervous and endocrine systems.

**Prerequisite/Corequisite:** KNSS 1200

**Note:** For Kinesiology students only.

**Note:** Successful completion of this course with a minimum C+ and PSIO 2259 with a minimum C+ will satisfy requirements for NURS 1230.

### **PSIO 2259-3 (BC=4)** (45-0-15) 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 2258 will be revisited to discuss control and integration of cellular and systemic function.

**Prerequisite:** PSIO 2258

**Note:** For Kinesiology students only.

**Note:** Successful completion of this course with a minimum C+ and PSIO 2258 with a minimum C+ will satisfy requirements for NURS 1230.

## Political Science

### **POLI 1201-3 (BC=3)** (45-0-0) 15 weeks

#### **Introduction to Politics**

Examine the basic concepts, ideologies, institutions and processes of politics.

### **POLI 1223-3 (BC=3)** (45-0-0) 15 weeks

#### **Canadian Political Issues**

Examine selected themes in Canadian politics, such as federalism and regionalism, the Charter of Rights, issues of diversity and citizenship, and how we are governed.

### **POLI 1283-3 (BC=3)** (45-0-0) 15 weeks

#### **Global Issues**

Explore some of the major issues in world politics, such as international tensions, migration, ethnic and religious conflict, human rights and sustainable development.

### **POLI 2308-3 (BC=3)** (45-0-0) 15 weeks

#### **Political Thought to 1550**

Examine classical Greek political thought and the western political philosophy traditions from Plato to Machiavelli (c. 450 BCE to 1550 CE), learning the role of various virtues in governance.

### **POLI 2309-3 (BC=3)** (45-0-0) 15 weeks

#### **Political Thought Since 1550**

Explore the developments in western political theory from the 17th century to the present (Hobbes to the present), learning how the relationship between the individual and the state has evolved.

### **POLI 2321-3 (BC=3)** (45-0-0) 15 weeks

#### **Canadian Governance**

Examine the issues underlying Canadian federalism, including the political culture, the ideologies, regionalism (Quebec and Western Alienation), along with the structure of government and the constitution.

### **POLI 2324-3 (BC=3)** (45-0-0) 15 weeks

#### **Politics of Health Care**

Examine the Canadian health care system through its development, the legislative, philosophical groundings, along with the financing and delivery from a comparative perspective.

### **POLI 2328-3 (BC=3)** (45-0-0) 15 weeks

#### **Public Administration**

Examine the major institutions, processes, and issues of public administration at the federal level in Canada, along with government organization, budgets, policy making, selected personnel issues, democratic control, and accountability.

### **POLI 2388-3 (BC=3)** (45-0-0) 15 weeks

#### **Global Trade I**

Discover the democratic issues within the context of global trade, the technological imperative, international trade regimes and their politics, and selected issue areas, such as trade and ethics.

### **POLI 2389-3 (BC=3)** (45-0-0) 15 weeks

#### **Global Trade II**

Explore the role of the state in the global economy; trade facilitation federally and provincially; introduction to area studies.

## Practical Nurse

### **PN 253-2 (BC=2)** (30-0-0) 15 weeks

#### **Health Promotion I**

Introduce concepts of health including prevention, promotion, determinants and inequalities. Begin exploration of common growth and development theories. Identify principles of teaching and learning.

### **PN 260-2 (BC=2)** (60-0-0) 7 weeks

#### **Health Promotion II**

Explore how persons living in residential care adapt to alterations in health. Explore health promotion principles and apply principles of teaching and learning. Growth and development theories of gerontology, mental health and palliative care will be introduced.

**Prerequisite:** PN 253

### **PN 262-3 (BC=3)** (90-0-0) 7 weeks

#### **Pathophysiology**

Explore common body responses to disease. Introduce microbiology concepts. Pathophysiology as related to chronic disorders commonly associated with adults and aging will be examined.

**Prerequisite:** INTP 201

### **PN 266-3 (BC=3)** (45-0-0) 15 weeks

#### **Health Promotion III**

Evaluate growth, development, and tasks of young and middle adulthood. Apply teaching and learning principles to health promotion collaborating with clients and families in the acute care health setting.

**Prerequisite:** PN 260

### **PN 272-1 (BC=1)** (0-0-75) 7 weeks (35 clinical hours)

#### **Practical Experience IV: Family Centered Care**

Application of the principles of health promotion and family centered care across the lifespan in family and community contexts.

**Prerequisite:** PN 268

**Corequisite:** PN 269, 270, 271

### **PN 276-4 (BC=4)** (60-0-0) 15 weeks

#### **Foundations for Success in Nursing**

The course develops an understanding of self as a learner in a health professions context. It explores the foundations of professional nursing, relational practice and therapeutic communication. The course promotes reflection on personal perspectives and experiences to understand one's own attitudes, beliefs, and values. It fosters resilience and explores strategies for self-management and growth.

**PN 277-3** (BC=4)  
(45-0-15) 15 weeks  
**Pharmacology**  
Explore legislation, drug standards, and safety principles through an introduction to pharmacological terminology and resources. Identify the PN role in medication administration and develop skills in drug calculations. Integrate and demonstrate accurate medication calculations, safe preparation, and administration of medication with an emphasis on application to gerontology.

**PN 278-3** (BC=3)  
(45-0-0) 15 weeks  
**Leadership**  
Frame the Practical Nursing (PN) profession in the context of the Canadian health care system and the philosophy of the RDP PN Conceptual Framework. Explore and examine legislation, professional standards, code of ethics, practice, history, and evolution of practical nursing to develop professional practice and leadership knowledge, skills and attributes.

**PN 279-3** (BC=3)  
(75-0-0) 9 weeks  
**Interprofessional Leadership**  
Examine current leadership issues, trends, theory, and practice to further develop and apply leadership knowledge, skills and attributes. Explore the role of leader, as a collaborative interprofessional, and identify how to enact change enabling optimal health outcomes in preparation for transition to a Licensed Practical Nurse.  
**Prerequisite:** PN 278  
**Corequisite:** None

**PN 1063-4** (BC=4)  
(168 clinical hours)  
**Residential Care Clinical**  
Application of theory and skills from semester one and two of the Practical Nursing program. Primary placement will be in a long-term care facility and requires students to practice introductory skills while assisting clients with varied needs. Focus on reflection of professional practice.  
**Prerequisites:** INTP 104, PN 1078, 1080, 1081, 1077, 1060, 1059, ENGL 219  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam.

**PN 1081-3** (BC=3)  
(30-0-45)  
**Nursing Foundations II**  
Explore nursing care skills and documentation related to asepsis, infection control, sterility, elimination, specimen collection, nutrition and oxygenation. Practice safe and professional bedside manner in the nursing labs.  
**Prerequisites:** PN 1052  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam

**PN 1252-3** (BC=4)  
(30-0-37.5) 15 weeks  
**Nursing Foundations I**  
Introduce the nursing principles fundamental to safe, competent practice. Explore holistic care concepts. Use evidence based theory to demonstrate nursing knowledge and skills. Reflect on own attitudes, behaviours and judgments to guide learning interactions.

**PN 2065-3** (BC=3)  
(30-0-30)  
**Nursing Foundations III**  
Explore advanced nursing care skills and documentation related to wound care, cardiac interventions, spinal precautions, central venous access devices, chest tubes, advanced airways, phlebotomy, dialysis, TPN and the perioperative patient. Practice safe and professional bedside manner in the nursing labs.  
**Prerequisite:** PN 1063.  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam

**PN 2067-3** (BC=3)  
(30-0-30)  
**Pharmacology II**  
Explore the science of pharmacology and the role of the practical nurse in medication preparation, management and administration. Pharmacokinetics and pharmacodynamics, along with medication classification actions, safe medication administration and drug calculations are covered for increasingly complex routes of medication administration.  
**Prerequisites:** PN 1063  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam.

**PN 2068-5** (BC=5)  
(224 clinical hours)  
**Acute Care Clinical**  
Application of theory and skills from semesters one to four of the Practical Nursing program. Primary placement will be in an acute care environment and requires students to practice increasingly complex nursing skills while assisting clients with varied needs. Focus on reflection of professional practice.  
**Prerequisites:** PN 1063, PN 2065, PN 2067  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam.

**PN 2070-3** (BC=4)  
(45-0-15)  
**Maternity and Pediatrics**  
Explore the knowledge, attitudes, behaviors, and clinical skills necessary to competently provide safe nursing care for pediatric and maternity clients and their families.  
**Prerequisite:** PN 1063  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam.

**PN 2071-3** (BC=3)  
(45-0-0)  
**Community Health Nursing**  
Explore the principles and foundations of community health nursing in Canada. Health promotion, disease prevention, population and community health, community and population health assessment and health program planning are key topics in this course. Examination of vulnerable populations in Canada and the health care challenges that are faced by rural and remote communities.  
**Prerequisite:** PN 1063

**PN 2075-6** (BC=6)  
(246 clinical hours)  
**Comprehensive Practicum**  
Demonstrate integration and consolidation of knowledge, skills, attitudes, behaviors, and judgments in this final clinical practicum. Learners who successfully complete this practicum are considered ready to move into independent professional practice.  
**Prerequisites:** PN 2068, PN 2070, 2071, 2079  
**Corequisite:** PN 2079  
This course is not eligible for PLAR, Transfer Credit or Challenge Exam

## Production

**PROD 1100-2** (BC=2)  
(15-0-30) 15 Weeks  
**Production Fundamentals I**  
A broad overview for a basic understanding of production elements in entertainment. Exploration and practice of safety and functionality of production fundamentals. Introduction to film and theatre equipment, lights, sound and production design.

**PROD 1100-3** (BC=3)  
(15-0-45)  
**Introduction to Film Projects**  
Project organization, professionalism, and community of practice. Application of creative, practical, and communication skills. Building awareness of role and responsibilities within projects of limited scope. With guidance of instructor, students will initiate creative ideas and undertake collaborative processes.

**PROD 1101-2** (BC=2)  
(15-0-30) 15 Weeks  
**Production Fundamentals II**  
A broad overview for a basic understanding of production elements in entertainment. Exploration and practice of safety and functionality of production fundamentals. Assembling and operation of lighting, sound, electric and production design equipment.  
**Prerequisite:** PROD 1100

<b>PROD 1103-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Film Production I</b> Identification of film fundamentals in live action motion picture production. Includes development of basic competence towards all areas of production. Practice of industry etiquette and communication.	<b>PROD 2211-3</b> (BC=3) <b>(45-0-0) 15 Weeks</b> <b>Entertainment Management I</b> Broad overview and basic understanding of Live Events. Examination of events for cruise ships, concerts, festivals, stage, and corporate events. Insight into primary structures and how they move from conception to completion. <b>Prerequisite:</b> PROD 1101	<b>PROD 3301-3</b> (BC=3) <b>(15-0-75) 15 Weeks</b> <b>Film Projects II</b> Project based collaboration and community of practice. Application of creative, practical and communication skills. Development of professional skills and confidence. Building awareness of role and responsibilities within projects of limited scope. With construct and guidance of instructor students will initiate/execute creative ideas and process. <b>Prerequisite:</b> FTLE 2220
<b>PROD 1105-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Production Safety</b> Gain an understanding of live production safety elements and attain selected industry approved certifications.	<b>PROD 2213-4</b> (BC=4) <b>(30-0-60)</b> <b>Stagecraft I: Building and Scenic Painting</b> Construction of sets and stages for performance and events. Includes elements of scenic painting. <b>Prerequisite:</b> PROD 1103	<b>PROD 3303-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Film Production IV</b> Examines more advanced practice in professional film production with a focus on industry operations and postproduction skills. Skill development in cinematography, camera operation, lighting, editing, sound, and production management. Flexibility and learning skills needed to acquire specialized expertise are emphasized. <b>Prerequisite:</b> PROD 2204
<b>PROD 2203-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Film Production II</b> Introduces current practice in professional film production including knowledge and skill development in cinematography, sound, editing and production management. <b>Prerequisite:</b> PROD 1103	<b>PROD 2215-2</b> (BC=3) <b>(30-0-15) 15 Weeks</b> <b>Sound for Live Entertainment</b> From "talking head" presentations to building sound cues. Exploration of various skills and techniques that go into preparing sound for different aspects of live events. <b>Prerequisite:</b> PROD 1100 and PROD 1101	<b>PROD 3304-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Film Production V</b> Examines more advanced practice in professional film production with a focus on industry operations and postproduction skills. Skill development in cinematography, camera operation, lighting, editing, sound, and production management. Flexibility and learning skills needed to acquire specialized expertise are emphasized. Builds on skills previously learned in film production. <b>Prerequisite:</b> PROD 3303
<b>PROD 2204-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Film Production III</b> Expands on concepts acquired in Film Production II – with further knowledge and skill development in cinematography, sound, editing, and production management. <b>Prerequisite:</b> PROD 2203	<b>PROD 2217-2</b> (BC=3) <b>(30-0-15) 15 Weeks</b> <b>Projection Media I</b> Examine digital projection and how it is used in the entertainment industry. Explore basic technical and constructive concepts relating to media acquisitions, editing and use. <b>Prerequisite:</b> PROD 1100 and PROD 1101	<b>PROD 3305-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Advanced Cinematography II</b> Expands on current and emerging cinematography practice including visual effects, 3D stereography, and aerial photography. <b>Prerequisite:</b> PROD 2205
<b>PROD 2205-3</b> (BC=3) <b>(30-0-45) 15 Weeks</b> <b>Advanced Cinematography I</b> Examines the art, craft, techniques and changing technologies of cinematography including lighting, camera movement, and professional crew responsibilities. <b>Corequisite:</b> PROD 2204	<b>PROD 2219-3</b> (BC=3) <b>(30-0-30) 15 Weeks</b> <b>Lighting and Projections I</b> Theory and practice in basic electricity, lighting, and projections. Function and operation of professional lighting and projections equipment. <b>Prerequisite:</b> PROD 1100 and PROD 1101	<b>PROD 3307-3</b> (BC=3) <b>(45-0-0) 15 Weeks</b> <b>Business for Film Production</b> Examines film financing, budgeting, scheduling, and distribution. Includes entertainment law and the societal and political context of the Canadian screen industry. <b>Prerequisite:</b> FTLE 2215
<b>PROD 2207-2</b> (BC=2) <b>(15-0-30) 15 Weeks</b> <b>Wardrobe Aesthetics</b> Examination of various textiles, products, and techniques used for characterization in film, stage and live events. Use of cultural and historical motifs to develop a personal aesthetic. <b>Prerequisite:</b> ART 1231 or ART 1241	<b>PROD 2221-3</b> (BC=3) <b>(30-0-30) 15 Weeks</b> <b>Documentary Fundamentals</b> Examine the fundamentals of documentary and non-conventional narrative filmmaking. Experiment with basic documentary production concepts and applying knowledge to projects in the field. <b>Prerequisite:</b> CREA 1110	
<b>PROD 2209-3</b> (BC=3) <b>(30-0-30) 15 Weeks</b> <b>Drafting for the Entertainment Industry</b> Introduction to technical communication techniques within the entertainment industry. Hand drafting and basic CAD will be addressed. <b>Prerequisite:</b> PROD 1101	<b>PROD 3300-3</b> (BC=3) <b>(15-0-75) 15 Weeks</b> <b>Film Projects I</b> Project based collaboration and community of practice. Application of creative, practical and communication skills. Development of professional skills and confidence. Building awareness of role and responsibilities within projects of limited scope. With construct and guidance of instructor students will initiate/execute creative ideas and process. <b>Prerequisite:</b> FTLE 2220	



**PROD 3309-3** (BC=3)  
**(15-0-75) 15 Weeks**  
**Stage Projects I**  
 Project based collaboration and community of practice. Application of creative, practical, and communication skills. Development of professional skills and confidence. Building awareness of role and responsibilities within projects of limited scope. With construct and guidance of instructor students will initiate/execute creative ideas and process.  
**Prerequisite:** FTLE 2220

**PROD 3310-3** (BC=3)  
**(15-0-75) 15 Weeks**  
**Stage Projects II**  
 Project based collaboration and community of practice. Application of creative, practical, and communication skills. Development of professional skills and confidence. Building awareness of role and responsibilities within projects of limited scope. With construct and guidance of instructor students will initiate/execute creative ideas and process.  
**Prerequisite:** FTLE 2220

**PROD 3311-2** (BC=3)  
**(30-0-15) 15 Weeks**  
**Entertainment Management II**  
 Focuses on the integration of the elements of an event from process to a finished product. Practice application of techniques, information, and protocols from previous knowledge in an event and classroom setting.  
**Prerequisite:** PROD 2211

**PROD 3313-3** (BC=3)  
**(30-0-60) 15 Weeks**  
**Stagecraft II: Building and Scenic Painting**  
 Construction of sets and stages for performance and events. Includes 2D and 3D staging materials. Includes transfer techniques from small to large scale.  
**Prerequisite:** PROD 2213

**PROD 3315-3** (BC=3)  
**(45-0-0) 15 Weeks**  
**Screenwriting**  
 Provides a practical application with appropriate formats and techniques for screenwriting. Includes narrative forms and structure, character and story throughlines, as it relates to film, television, and related areas. Students will apply their knowledge and skills to short screenwriting projects.  
**Prerequisite:** FTLE 2210

**PROD 3317-3** (BC=3)  
**(30-0-30) 15 Weeks**  
**Projection Media II**  
 Continued exploration in creating and editing content of digital media for projection. Practice implementing projection media in the context of the entertainment industry.  
**Prerequisite:** PROD 2217

**PROD 3319-2** (BC=3)  
**(15-0-30) 15 Weeks**  
**Lighting and Projections II**  
 Experiment, practice, and explore intermediate concepts and applications in lighting and projections. Complex image manipulation methods, colors, textures, lighting and projection equipment.  
**Prerequisite:** PROD 2219

**PROD 3321-3** (BC=3)  
**(15-0-60) 15 Weeks**  
**Event Production I**  
 Application of skills in event production including stage, studio, music, film, and other. Student will be assigned to specific roles/responsibilities in accordance with skillset, ability, and leadership.  
**Prerequisite:** FTLE 2220

**PROD 3322-3** (BC=3)  
**(15-0-60) 15 Weeks**  
**Event Production II**  
 Application of skills in event production including stage, studio, music, film, and other. Student will be assigned to specific roles/responsibilities in accordance with skillset, ability, and leadership.  
**Prerequisite:** FTLE 2220

**PROD 3325-3** (BC=3)  
**(30-0-45) 15 Weeks**  
**Post Production II**  
 Expands on current and emerging post production practice including visual effects, 3D Stereography, and colour correction.  
**Prerequisite:** AVFX 2209

**PROD 3327-3** (BC=3)  
**(30-0-45) 15 Weeks**  
**CAD and 3D Modeling**  
 Explore a variety of techniques and materials used in the building of 3D models of setting and stages for the entertainment industry. Includes hand-built and CAD generated model work.  
**Prerequisite:** PROD 2209

**PROD 3329-3** (BC=3)  
**(30-0-30) 15 Weeks**  
**Design for the Entertainment Industry**  
 The examination of how visual design techniques are used for the Entertainment Industry. Emphasis will be on the processes of research, concept development, and communication.  
**Prerequisite:** ART 1231 or ART 1241

**PROD 3331-3** (BC=3)  
**(30-0-45) 15 Weeks**  
**Stagecraft Automation and Rigging**  
 Examination of simple and complex automation and rigging in staging for entertainment events.  
**Prerequisite:** PROD 3313

**PROD 3333-3** (BC=3)  
**(30-0-30) 15 Weeks**  
**Sound for Live Bands**  
 Explore different facets that go into setting up a sound system for live music and how to mix live bands, from a bare stage to a full sound set-up. Analyze simple to intermediate live mixing concepts and techniques. Discuss, explore, and play with the behaviour of sound.

**PROD 3335-3** (BC=3)  
**(30-0-45) 15 Weeks**  
**Props Stage and Screen**  
 The analysis, acquisition, adaptation and construction of scenic props for both stage and screen. Budgeting, script analysis, research, design development. Experimentation with new materials and animatronic effects.  
**Prerequisite:** FTLE 2220

**PROD 3337-3** (BC=3)  
**(0-0-90) 15 Weeks**  
**Productions**  
 The research, rehearsal, and performance of plays or created work for performance before an audience.

## Psychology

**PSYC 1001-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Principles of Psychology I**  
 Discover the fundamental terminology, procedures, findings and theories related to basic psychological processes. Explore the history and nature of psychology and research methods in this field. Learn about the psychological and biological foundations of behaviour, sensation and perception, consciousness, learning, memory, language and thought.

**PSYC 1002-3** (BC=3)  
**(45-0-0) 15 weeks**  
**Principles of Psychology II**  
 Identify fundamental terminology, procedures, findings, and theories related to individual, social, and abnormal behaviour. Topics may include intelligence, problem solving, creativity, motivation and emotion, lifespan development, personality, psychological disorders and treatments, health, stress and coping, and social behaviour.  
**Prerequisite:** PSYC 1001

**PSYC 2105-3** (BC=3)  
**(45-0-0) 15 weeks**  
**History of Psychology**  
 Examine the roots of psychological thought as a discipline and the relationship between theories of human nature and changing social institution.  
**Prerequisite:** PSYC 1001 and PSYC 1002

<b>PSYC 2241-3</b> (BC=3) (45-0-0) 15 weeks <b>Social Psychology</b> Examine research on and real-life applications of topics such as self and social perception, social cognition; prejudice, stereotyping, discrimination; attitude formation and persuasion; conformity and obedience; affiliation and attraction; pro- and anti social- behaviours; and applied social psychology (environment, law, health). Prerequisites: PSYC 1001 and 1002 or SOCI 1260 Note: PSYC majors must take both PSYC 1001 and 1002 Antirequisite: SOCI 2341	<b>PSYC 2369-3</b> (BC=3) (45-0-0) 15 weeks <b>Sensation and Perception</b> Learn to distinguish between sensation and perception. Explore the senses of vision, audition, smell, taste and touch. Learn how the sensory organs transform energy into brain signals. Prerequisite: PSYC 1001 and PSYC 1002 Note: For U of A bound students, the additional prerequisite or corequisite of either STAT 1251 or PSYC 2714 is required.	<b>PSYC 2591-3</b> (BC=3) (45-0-0) 15 weeks <b>Health Psychology</b> Examine the relationship of psychology to illness and related dysfunction, promotion and maintenance of health, and the health care system. Prerequisite: PSYC 1001 and PSYC 1002
<b>PSYC 2247-3</b> (BC=3) (45-0-0) 15 weeks <b>Psychology of Gender</b> Examine psychological perspectives on gender including the nature of gender, alternative expressions of gender (e.g. transgenderism), the reproduction of gender through social institutions, gender similarities and differences, feminism, and gender stereotypes, sexism, and discrimination. Prerequisite: PSYC 1001 and PSYC 1002	<b>PSYC 2467-3</b> (BC=3) (45-0-0) 15 weeks <b>Human Sexual Behaviour</b> Explore and integrate scientific applications from biology, medicine, anthropology, anatomy, law, social sciences, and psychology offering a multidisciplinary perspective of human sexuality within the framework of diversity. Prerequisite: PSYC 1001 and PSYC 1002	<b>PSYC 2653-3</b> (BC=3) (45-0-0) 15 weeks <b>Child Development</b> Examine theory and research related to physical, cognitive, emotional and social development across infancy and childhood. Prerequisite: PSYC 1001 and PSYC 1002
<b>PSYC 2280-3</b> (BC=3) (45-0-0) 15 weeks <b>Positive Psychology</b> Examine research on and real-life applications of topics such as resilience, personal growth, strengths, optimism, gratitude, compassion, kindness, happiness, positive coping, health and well being, mindfulness, spirituality, flourishing relationships, positive institutions, and building better communities. Prerequisite: PSYC 1001 and PSYC 1002	<b>PSYC 2468-3</b> (BC=3) (45-0-0) 15 weeks <b>Principles of Learning</b> Synthesize contemporary and traditional theories of learning and memory for the development of target behaviours. Assimilate psychological applications including behavioural modifications in humans. Prerequisite: PSYC 1001 and PSYC 1002	<b>PSYC 2655-3</b> (BC=3) (45-0-0) 15 weeks <b>Adolescence</b> Examine theory and research related to physical, cognitive, emotional, and social development across adolescence. Prerequisite: PSYC 1001 and PSYC 1002
<b>PSYC 2283-3</b> (BC=3) (45-0-0) 15 weeks <b>Personality</b> Survey theory and research related to the major approaches in the study of personality. Prerequisite: PSYC 1001 and PSYC 1002	<b>PSYC 2475-3</b> (BC=3) (45-0-0) 15 weeks <b>Brain and Behaviour</b> Synthesize scientific evidence on the neural mechanisms related to sensation, movement, learning, motivation, emotion, and cognition in humans and other animals. Prerequisite: PSYC 1001	<b>PSYC 2657-3</b> (BC=3) (45-0-0) 15 weeks <b>Adulthood and Aging</b> Examine theory and research related to physical, cognitive, emotional, and social development across adulthood. Prerequisite: PSYC 1001 and PSYC 1002
<b>PSYC 2358-3</b> (BC=3) (45-0-0) 15 weeks <b>Cognitive Psychology</b> Survey major theoretical approaches and research in areas such as perception, attention, memory, the representation of knowledge, language, reasoning and problem solving. Prerequisite: PSYC 1001 and PSYC 1002 Note: For U of A bound students only, the additional prerequisite or corequisite of either STAT 1251 or PSYC 2714 is required.	<b>PSYC 2477-3</b> (BC=3) (45-0-0) 15 weeks <b>Human Neuropsychology</b> Explore the connection between brain and behaviour with a particular focus on human cognitive function and dysfunction. Assimilate scientific evidence on the neural substrates of specific cognitive functions and related disorders. Prerequisite: PSYC 2475	<b>PSYC 2713-3</b> (BC=4) (45-0-30) 15 weeks <b>Research Methods</b> Examine the research methods commonly used in psychological research. Prerequisite: PSYC 1001 Prerequisite or Corequisite: PSYC 1002 Note: Credit will not be given for both PSYC 312 and PSYC 2713
	<b>PSYC 2589-3</b> (BC=3) (45-0-0) 15 weeks <b>Abnormal Psychology</b> Examine contemporary views of the nature, development, and treatment of psychological disorders. Prerequisites: PSYC 1001 and PSYC 1002 Note: Not to be taken by students who have credit in PSYC 489	<b>PSYC 2714-3</b> (BC=4) (45-0-30) 15 weeks <b>Data Analysis</b> Explore and Practice statistics used in psychological research, with an emphasis on conducting and interpreting inferential statistical techniques. Become acquainted with widely-used statistical software. Learn to communicate quantitative data in statistics, graphs and tables. Prerequisite: Math 30-1 or 30-2 or equivalent and PSYC 1001 Prerequisite or Corequisite: PSYC 1002 Note: Credit will not be given for both PSYC 312 and PSYC 2714
		<b>PSYC 3201-3</b> (BC=3) (45-0-0) 15 weeks <b>Topics in Social Psychology</b> Examine research, theory, and applications within selected topics in Social Psychology. This course may be repeated for credit. Prerequisites: PSYC 2713, PSYC 2714 and PSYC 2241 No corequisites.

**PSYC 3202-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Personality Psychology**  
Examine research, theory, and applications within selected topics in Personality Psychology. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and PSYC 2283

**PSYC 3301-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Cognitive Science**  
Examine research, theory, and applications within selected topics in Cognitive Science. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713 and PSYC 2714 and either PSYC 2358 or PSYC 2369 (which one will depend on the specific topic of that iteration)

**PSYC 3401-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Neuroscience**  
Examine research, theory, and applications within selected topics in Neuroscience. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and PSYC 2475

**PSYC 3501-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Clinical Psychology**  
Examine research, theory, and applications within selected topics in Clinical Psychology. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and PSYC 2589

**PSYC 3502-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Health Psychology**  
Examine research, theory, and applications within selected topics in Health Psychology. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and PSYC 2591

**PSYC 3601-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Child or Adolescent Development**  
Examine research, theory, and applications within selected topics in psychological development during childhood and adolescence. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and either PSYC 2653 or PSYC 2655

**PSYC 3602-3** (BC=3)  
(45-0-0) 15 weeks  
**Topics in Adulthood and Aging**  
Examine research, theory, and applications within selected topics in adulthood and aging. This course may be repeated for credit.  
**Prerequisites:** PSYC 2713, PSYC 2714 and PSYC 2657

**PSYC 4705-3** (BC=4)  
(45-0-0) 15 weeks  
**Research in Psychology**  
Examine research methods and empirical evidence as they relate to the creation of theories and knowledge in psychology.  
**Prerequisites:** PSYC 2713 and PSYC 2714

**PSYC 4707-3** (BC=4)  
(45-0-30) 15 weeks  
**Advanced Data Analysis**  
Explore and practice advanced statistical techniques used in psychological research. Become acquainted with widely-used statistical software. Expand knowledge on how to communicate data in statistics, graphs, and tables.  
**Prerequisites:** PSYC 2713 and PSYC 2714

**PSYC 4988-3** (BC=3)  
(0-45-0)  
**Independent Research I**  
Design, plan, and propose an independent research project under the supervision of a Faculty advisor.  
**Prerequisites:** Minimum A- in both PSYC 2713 and PSYC 2714 and acceptance under a Faculty supervisor

**PSYC 4989-3** (BC=3)  
(0-45-0)  
**Independent Research II**  
Collect, analyze, interpret, and present data to complete an independent research project under the supervision of a Faculty advisor.  
**Prerequisites:** Minimum A- in both PSYC 2713 and PSYC 2714 and acceptance under a Faculty supervisor

## Science

**SCIE 2101-3** (BC=3)  
(45-0-0) 15 weeks  
**Contemporary Issues in Science**  
Examine contemporary issues in science through engagement with primary scientific literature and lay literature. Explore communication strategies used by science communicators. Analyze controversial data to select strategies for discourses on contemporary issues.  
**Prerequisite:** 15 credits of university level science courses

**SCIE 4901-3** (BC=3)  
(120 work hours) 15 weeks  
**Applied Study**  
Credit for discipline-specific learning through volunteer or work experiences completed in conjunction with a faculty supervisor.  
**Prerequisite:** Permission of the department

## Social Work

Open to Social Work students only.

**SOWK 1201-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Work Practice I**  
Introduction to helping relationships including the use of communication and counselling skills for ethical and anti-oppressive social work practice.  
**Corequisite:** SOWK 1204, SOWK 1214

**SOWK 1202-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Work Practice II**  
Develop assessment and intervention strategies for working with individuals in social work practice. Examine change through the lens of developing a working alliance, and reflect on use of self, and effective use of skills.  
**Prerequisites:** SOWK 1201, 1204 and 1214

**SOWK 1204-3** (BC=3)  
(45-0-0) 15 weeks  
**Ethics in Social Work Practice**  
Explore ethical principles, codes, and frameworks for decision-making in social work practice. Reflect on the interaction of personal and professional values.

**SOWK 1207-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to Social Welfare**  
Introduction to the history of social welfare and social services with a focus on Canada. Explores role of social work in colonization; explores populations involved with service delivery systems; reflects on personal views; explores marginalization, oppression, social justice, and human rights.

**SOWK 1209-4** (BC=5)  
(240 hours)  
**Field Work I**  
Application of in-class learning to a fieldwork setting, including building professional relationships and ethical conduct.  
**Prerequisite:** SOWK 1212  
**Corequisite:** SOWK 1202

**SOWK 1212-1** (BC=1)  
(0-45-0) 15 weeks  
**Preparation for Practice**  
Focus on professional practice in service delivery settings.  
**Prerequisite or corequisite:** SOWK 1201, SOWK 1204 and SOWK 1214

**SOWK 1214-3** (BC=3)  
(45-0-0) 15 weeks  
**Reconciliation through Social Work**  
Introduces the impact of colonization on Indigenous and non-Indigenous Canadians from a Social Work perspective. Focus is on reconciliation in preparation for practice.

**SOWK 2301-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Work Practice with Families**  
Examine social work with diverse family forms throughout their lifespan. Expand upon strategies for interviewing, assessment, and intervention.  
**Prerequisites:** SOWK 1202, SOWK 1207 and SOWK 1209 or permission of Program Chair or Associate Dean

**SOWK 2304-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Work Practice with Groups and Communities**  
Examine theories and models of group work and community organization with contextual applications. Evaluate self as a group member, leader, and community organizer.  
**Prerequisites:** SOWK 2301, SOWK 2307 and SOWK 2315 or permission of Program Chair or Associate Dean

**SOWK 2306-3** (BC=3)  
(45-0-0) 15 weeks  
**Leadership in Social Work**  
Examine effective leadership and management through a social work lens. Apply leadership and management theories to social services delivery and to programs and program evaluation.  
**Prerequisites:** SOWK 1209 and SOWK 2307

**SOWK 2307-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Policy**  
Examine the function of social policy in social work practice and service delivery, including development, influences, analysis of needs and gaps, and strategies for promoting change.  
**Prerequisites:** SOWK 1204, SOWK 1207 and SOWK 1214

**SOWK 2308-4** (BC=5)  
(240 hours)  
**Field Work II**  
Demonstrate social work skills in supervised field setting while employing self-care and reflective practice.  
**Prerequisites:** SOWK 1209-4 or permission of Program Chair or Associate Dean

**SOWK 2309-4** (BC=5)  
(240 hours)  
**Field Work III**  
Practice social work in supervised field work setting. Demonstrate professional knowledge, skills, and ethics, and the contribution to one's practice framework.  
**Prerequisite:** SOWK 2308

**SOWK 2312-3** (BC=3)  
(45-0-0) 15 weeks  
**Current Trends and Issues in Social Work**  
Explore current trends and issues in social work practice and how they relate to social issues. Examine selected trauma issues relevant in Canadian society using a structural anti-oppressive framework. Develop critical consciousness to support practice with clients in a variety of settings and contexts.  
**Corequisites:** SOWK 2304 and SOWK 2308 or SOWK 2309 or permission of Program Chair or Associate Dean

**SOWK 2315-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Work Research**  
Examine Social Work research methodologies and their application in practice.  
**Prerequisites:** SOWK 1204, SOWK 1214 and SOWK 1207

## Sociology

**SOCI 1260-3** (BC=3)  
(45-0-0) 15 weeks  
**Introduction to Sociology**  
Introduce sociological perspectives, methods, and concepts used to analyze social behaviour. Examine how culture, socialization, institutions, and interactions impact on social life.

**SOCI 1261-3** (BC=3)  
(45-0) 15 weeks  
**Canadian Society**  
Examines the structure and functioning of Canadian society, including political, economic, cultural and value structures and processes.  
**Prerequisite:** SOCI 1260

**SOCI 2301-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Gender**  
Examine gender and sex roles in contemporary Canadian society. Introduce theories of gender and sex role behaviour focusing on the social construction of gender. Examine gender along four dimensions: interactional, individual, institutional, and cultural.  
**Prerequisite:** SOCI 1260

**SOCI 2305-3** (BC=3)  
(45-0-0) 15 weeks  
**Selected Topics in Sociology**  
Examination of selected social issue or problem from a sociological perspective. Analysis of selected topic using sociological research, theory and concepts.  
**Prerequisite:** SOCI 1260  
**Note:** This course may be repeated for credit.

**SOCI 2307-3** (BC=3)  
(45-0-0) 15 weeks  
**Indigenous Peoples in Canada**  
Examine the historical and contemporary context and experiences of Indigenous peoples in Canada. Analyze the dynamics of Indigenous groups' relations with each other and with the larger Canadian society, particularly in relation to prejudice, discrimination, colonialism, and power.  
**Prerequisite:** SOCI 1260

**SOCI 2310-3** (BC=4)  
(45-0-45) 15 weeks  
**Social Statistics I**  
Assess statistical reasoning and techniques used by sociologists to summarize data and test hypotheses. Examine sampling distributions, descriptive statistics, inferential statistics, univariate and bivariate analyses, parametric and non-parametric tests.  
**Prerequisite:** SOCI 1260

**SOCI 2312-3** (BC=4)  
(45-0-45) 15 weeks  
**Social Research Methodology**  
Appraise research design, data collection, and data processing strategies used by sociologists. Examine research values, ethics, measurement, sampling, experimentation, survey research techniques, historical methods, field research, and content analysis.  
**Prerequisite:** SOCI 1260

**SOCI 2315-3** (BC=4)  
(45-0-45) 15 weeks  
**Social Statistics II**  
Expand training in quantitative methods employed extensively in the social sciences in general and sociology in particular. Examines bivariate ordinary least squares (OLS) regression, multivariate regression techniques, non-linear relationships, interaction analysis, and logistic regression.  
**Prerequisite:** SOCI 2310

**SOCI 2322-3** (BC=3)  
(45-0) 15 weeks  
**Social Issues in Canada**  
A survey course on social issues in Canada. Regional and national scope will be covered in such areas as health, safety, the economy, the environment, community belonging, integration of newcomers and education.  
**Prerequisite:** SOCI 2310 or SOCI 2312 or consent of the department  
**Note:** You cannot receive credit for SOCI 2322 if you have previously taken ANTH 357.

**SOCI 2323-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Poverty**  
Examine poverty from a sociological perspective. Explore the meaning and experience of poverty in a Canadian context. Analyze the ability of sociological explanations to inform poverty reduction.  
**Prerequisite:** SOCI 1260



**SOCI 2325-3** (BC=3)  
(45-0) 15 weeks  
**Criminology**  
Discuss criminal behavior from a sociological perspective. Apply theoretical explanations to various types of criminal behavior and assess strategies for prevention. Describe various measures of criminality and victimization.  
**Prerequisite:** SOCI 1260

**SOCI 2327-3** (BC=3)  
(45-0) 15 weeks  
**Criminal Justice and Crime Control**  
Examine social responses to crime in relation to specific crime issues. Consider how crime control strategies are developed and executed. Consider how various stages of justice system function together. Examine changing directions of crime control. Evaluation of formal and informal crime control responses.  
**Prerequisite:** SOCI 1260

**SOCI 2332-3** (BC=3)  
(45-0-0) 15 weeks  
**Classical Sociological Theory**  
Explore the historical context of the development of classical sociological theory. Examine theories of Karl Marx, Emile Durkheim, Max Weber, Charlotte Perkins Gilman, W.E.B. Du Bois and others. Use classical social theory to analyze social issues.  
**Prerequisite:** SOCI 1260

**SOCI 2333-3** (BC=3)  
(45-0-0) 15 weeks  
**Contemporary Sociologic Theory**  
Examine the ideas of key twentieth and twenty-first century social theorists with a focus on contemporary sociological theory, with focus on Structural Functionalism, Critical Theory, Exchange Theory, Symbolic Interactionism, Poststructuralism, Postmodernism, and theories of Globalization. Analyze social issues using contemporary sociological theory.  
**Prerequisite:** SOCI 2332

**SOCI 2341-3** (BC=3)  
(45-0) 15 weeks  
**Social Psychology**  
Describe human social behaviours in terms of action, affect, and cognition. Exam relationships between individuals and groups within the larger context of society. Employ diverse theoretical and methodological approaches to the analysis of human social behaviours.  
**Prerequisite:** PSYC 1001 and 1002 or SOCI 1260  
**Note:** PSYC majors must take PSYC 1001 and 1002

**SOCI 2344-3** (BC=3)  
(45-0-0) 15 weeks  
**Mass Media and Popular Culture**  
Analyze various forms of mass media and popular culture such as music, television, film, advertising, sports, fashion, and social media. Focus on the interaction between media/popular culture and society, including economics, politics, ideology, and inequality.  
**Prerequisite:** SOCI 1260

**SOCI 2363-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Work**  
Examine meanings, trends, structures, and social relations related to paid and unpaid work in Canada. Use sociological theories to consider the nature and impacts of the changing nature of work in contemporary society.  
**Prerequisite:** SOCI 1260

**SOCI 2365-3** (BC=3)  
(45-0-0) 15 weeks  
**Social Stratification**  
Employ sociological perspective to a study of social inequality in Canada. Examine the bases of social inequality, such as class, gender, age, and ethnicity; and the intersectionality of these bases of social inequality. Analyze the causes and consequences of social inequality and their policy implications.  
**Prerequisite:** SOCI 1260

**SOCI 2368-3** (BC=3)  
(45-0-0) 15 weeks  
**Race and Ethnicity in Canada**  
Examine racial and ethnic differences and inequalities as social constructs and in relation to prejudice, discrimination, colonialism, assimilation, power, and prestige. Use sociological theories to examine the diversity in historical background and contemporary social status of a variety of groups in Canada.  
**Prerequisite:** SOCI 1260

**SOCI 2371-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Families**  
Examine how social factors influence the ever changing experiences, transitions and trends in the formations, functions, and relations of North American Families. Analyze specific family issues such as intimate partnerships, parenting, divorce, violence, and poverty from sociological perspectives.  
**Prerequisite:** SOCI 1260

**SOCI 2373-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Aging**  
Examine aging as a socio-cultural phenomenon with a focus on social and institutional factors associated with aging in modern society. Analyze the nature and impacts of populating aging. Explore the aging processes in relation to culture, work, housing, health, and family in Canadian society.  
**Prerequisite:** SOCI 1260

**SOCI 2374-3** (BC=3)  
(45-0-0) 15 weeks  
**Sociology of Health and Illness**  
Examine how social factors influence knowledge, treatments, experiences of disease, and approaches for disease prevention. Explore the ethics of health research, practices, and problems experienced by healthcare providers. Assess the Canadian healthcare system focusing evaluations on issues of delivery, financing or allocation.  
**Prerequisite:** SOCI 1260

**SOCI 2376-3** (BC=3)  
(45-0) 15 weeks  
**Sociology of Religion**  
Utilize the theories and concepts utilized by sociologists to interpret religious behaviour and the organization of religion. Examine the interconnection between religion, culture, and society from different sociological perspectives.  
**Prerequisite:** SOCI 1260

## Statistics

**STAT 1251-3** (BC=4)  
(45-0-30) 15 weeks  
**Introductory Statistics**  
Explore methods for the collection, organization and summarization of data. Interpret the concepts of probability and distributions in order to make inferences about quantitative problems in applied settings.  
**Prerequisite:** Math 30-1 or Math 30-2  
**Antirequisite:** PSYC 3309, BUS 1306

# Academic Upgrading Courses

You must have strong prerequisite skills to be successful in higher course levels.

## Adult Development

### ADEV 0100-1 (BC=1)

(0-15-0) 15 hours

#### Supported Study I

Participate in a systemic approach to study activities to improve academic and personal skills. Identify resources to support learning. Plan and record 15 hours of activities that engage various supportive resources (for example: instructor consultations, tutoring supports, library learning supports, campus service centres, online study modules, or peer study groups).

### ADEV 0200-2 (BC=2)

(0-30-0) 30 hours

#### Supported Study II

Participate in a systemic approach to study activities to improve academic and personal skills. Identify resources to support learning. Plan and record 30 hours of activities that engage various supportive resources (for example: instructor consultations, tutoring supports, library learning supports, campus service centres, online study modules, or peer study groups).

## Biology

### BIOL 0200-5 (BC=6)

(75-0-15) 75 hours lecture, 15 hours lab  
**Introductory Biology**

For students with no biology background. Basic environmental biology. Photosynthesis and cellular respiration. Human systems. Lab work is related to class discussion and gives you practical experience in a lab setting. Equivalent to Biology 20.

Prerequisite or Corequisite: ENGL 0050

### BIOL 0300-6 (BC=6)

(75-0-30) 75 hours lecture, 30 hours lab  
**Preparatory Biology**

Principles of human anatomy and physiology. Cell division and genetics. Basic population and community dynamics. 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. Equivalent to Biology 30.

Prerequisite: BIOL 0200 or Biology 20

Prerequisite or Corequisite: ENGL 0200

## 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 0200-5 (BC=6)

(75-0-15) 75 hours lecture, 15 hours lab  
**Introductory Chemistry**

An introduction to atomic structure, elements, the periodic table and chemical bonding, with a greater emphasis placed on nomenclature, reactions and stoichiometry. Equivalent to Chemistry 20.

Prerequisite or Corequisite: Math 0100 or Math 10C

### CHEM 0300-6 (BC=6)

(75-0-30) 75 hours lecture, 30 hours lab  
**Preparatory Chemistry**

For students with previous study in chemical nomenclature, reactions and stoichiometry. Topics to be covered include Gases, Solutions, Energy, Electrochemistry, Equilibrium and Acids and Bases. Equivalent to Chemistry 30.

Prerequisite: CHEM 0200 or Chemistry 20 and Math 0100 or Math 10C

## English

### ENGL 0050-5 (BC=5)

(75-0-0) 75 hours lecture

#### Basic English

Develop reading, vocabulary, comprehension and basic writing skills. Provide a basic introduction to literature.

### ENGL 0200-5 (BC=5)

(75-0-0) 75 hours lecture

#### Reading Viewing and Composition

Introduce major literary genres. Develop critical and analytical reading and viewing skills. Respond to texts in written and oral form. Develop and improve writing skills, including grammar. Provide an introduction to research and documentation. Equivalent to ELA 10-1 and ELA 20-2.

Prerequisite: ENGL 0050 or ELA 10-2

### ENGL 0201-5 (BC=5)

(75-0-0), 75 lecture hours

#### Reading and Writing about Literature

Discuss a variety of literary texts, including long fiction, short fiction, essays, poetry, drama, oral texts and/or multimedia texts. Cultivate analytical and critical reading skills. Extend writing and grammar skills. Expand and polish research and documentation skills. Equivalent to ELA 20-1.

Prerequisites: ENGL 0200 or ELA 10-1 or ELA 10-2

### ENGL 0300-5 (BC=5)

(75-0-0) 75 lecture hours

#### Texts and Contexts of Meaning

Discuss a variety of texts, including written, oral, visual and/or multimedia texts. Situate texts within contexts to enrich understanding and relevance. Extend writing and grammar skills. Expand research and documentation skills. Equivalent to ELA 30-2.

Prerequisites: ENGL 0200 or ENGL 0201 or ELA 20-1 or ELA 20-2

### ENGL 0301-5 (BC=5)

(75-0-0) 75 lecture hours

#### Literature and Composition

Discuss the major literary forms of prose, drama, and poetry. Develop critical and analytical reading skills. Cultivate skills with essay writing and argumentation. Extend skills with research and documentation. Equivalent to ELA 30-1.

Prerequisites: ENGL 0201 or ENGL 0300 or ELA 30-2 or ELA 20-1 or EAP II

## English Language Learning

### ELL 1001-0 (BC=10)

(175-0-0) 7 weeks

#### English Language Learning I

English language preparation, equivalency of CLB Level 6, for students admitted to the ESL-HCA cohort program.

### ELL 1002-0 (BC=10)

(175-0-0) 7 weeks

#### English Language Learning II

English language preparation, equivalency of CLB Level 7, for students admitted to the ESL-HCA cohort program.

## Indigenous Studies

### INDS 0300-5 (BC=5)

(5-0-0) 15 weeks

#### Indigenous Studies I

Examine Indigenous worldviews and the effects western politics and colonialism had and continues to have on Indigenous ways of knowing and being. This course will explore global Indigenous cultures, focusing primarily on Canada and Alberta. Equivalent to Aboriginal Studies 30.

## Mathematics

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 Academic Upgrading Program. Please book for your test by calling 342.3400 or 343.4026.

### **MATH 0050-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **Preparatory Mathematics**

A basic mathematics course for students requiring algebra or applied mathematics. Topics include: operations on rational numbers; Metric and English measurement; geometry in 1, 2, and 3 dimensions; introduction to algebra; and solving equations.

### **MATH 0100-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **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. Equivalent to Math 10C.  
**Prerequisite:** MATH 0050 or Math 9

### **MATH 0200-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **Intermediate Math Principles**

An intermediate math course. Topics include: measurement, mathematical reasoning, trigonometry, quadratic functions and equations, statistics, and radicals. Equivalent to Math 20-2.  
**Prerequisite:** MATH 0100 or Math 10C

### **MATH 0201-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **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. Equivalent to Math 20-1.  
**Prerequisite:** MATH 0100 or Math 10C

### **Math 0300-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **Senior Algebra and Trigonometry**

A senior math course. Topics include: logical reasoning and set theory; probability; permutations and combinations; rational expressions; logarithmic and exponential functions; polynomial and sinusoidal functions. Equivalent to Math 30-2.  
**Prerequisite:** MATH 0201 or Math 20-1 or Math 20-2

### **MATH 0301-6 (BC=6)**

*(90-0-0) 90 hours lecture*

#### **Precalculus: Algebra and Trigonometry**

A senior math course. Topics include: polynomial and rational functions; logarithmic and exponential functions; trigonometric functions; sequences and series; permutations and combinations. Equivalent to Math 30-1.  
**Prerequisite:** MATH 0201 or Math 20-1

### **MATH 0310-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **Introduction to Calculus**

A senior course recommended for students who will be taking university calculus courses. Topics include: limits and continuity; derivatives; graphing; applications of derivatives; integration; applications of integration. Equivalent to Math 31.

**Prerequisite or Corequisite:** MATH 0301 or Math 30-1

## Physics

### **PHYS 0200-5 (BC=6)**

*(75-0-15) 75 hours lecture, 15 hours lab*

#### **Introductory Physics**

Course topics include kinematics, dynamics, circular motion, work and energy, oscillatory motion and mechanical waves. Equivalent to Physics 20.

**Prerequisite:** Math 0100 or Math 10C

### **PHYS 0300-6 (BC=6)**

*(75-0-30) 75 hours lecture, 30 hours lab*

#### **Preparatory Physics**

Course topics include momentum and impulse, forces and fields, electromagnetic radiation, and atomic physics. Equivalent to Physics 30.

**Prerequisite:** PHYS 0200 or Physics 20 and MATH 0201 or MATH 0200 or Math 20-1 or Math 20-2

## Science

### **SCIE 0100 (BC=5)**

*(5-0-0) 15 weeks*

#### **Science 10**

Basic scientific theories and principles in biology, chemistry, and physics. Topics include balanced chemical equations, nomenclature, first and second laws of thermodynamics, cell theory and cell specialization in plants, climate patterns, and biomes. This course prepares students for more advanced studies in the sciences. Equivalent to Science 10.

**Pre/Corequisites:** ENGL 0050 and MATH 0050

## Social Studies

### **SOST 0301-5 (BC=5)**

*(75-0-0) 75 hours lecture*

#### **Twentieth Century World**

Learners will acquire a conceptual framework with which to respond to developing global issues by studying how ideologies originate and their effect on identity and citizenship. The course will focus on classical and modern liberalism, the viability of liberalism, and challenges of communism, totalitarianism, fascism and Nazism including economic systems. Equivalent to Social Studies 30-1.

**Prerequisite:** Social Studies 20-1, 30-2 or consent of the Department

**Corequisite:** Recommended: ENGL 0301 or ELA 30-1 or consent of the Department

Red Deer Polytechnic acknowledges that we learn and work on Treaty 7, Treaty 6 and Métis ancestral lands, the gathering place of many Indigenous peoples.

This is where we will strive to honour and transform our relationships with one another.

#### **Main Campus**

100 Donald Blvd. | PO Box 5005  
Red Deer, Alberta | Canada | T4N 5H5

#### **Downtown Campus**

Millennium Centre | 4909 – 49 Street  
Red Deer, Alberta | Canada | T4N 1V1

#### **Information**

Monday – Friday | 8:30 am – 4:30 pm  
Main Phone Number | 403.342.3400  
Main Fax Number | 403.357.3660  
Toll-free Number | 1.888.732.4630  
Email | [inquire@rdpolytech.ca](mailto:inquire@rdpolytech.ca)

#### **Departments**

Academic Advising | 403.342.3585  
Apprenticeship Registration | 403.342.3100 | 1.888.475.1101  
Athletics | 403.342.3201  
Bookstore | 403.342.3245  
Cashiers/Parking | 403.342.3132  
Child Care Centre | 403.357.3600  
Extended Education | 403.356.4900 | 1.888.886.2787  
Counselling Centre | 403.343.4064  
Accessibility Services | 403.357.3629  
Flexible Learning Services | 403.357.3664  
Funding and Awards | 403.342.3254  
International Student Services | 403.342.3400  
Learning Support Services | 403.357.3629  
Office of the Registrar | 403.342.3400  
Prior Learning Assessment | 403.342.3219  
Residence | 403.342.3257  
Students' Association | 403.342.3200

[rdpolytech.ca](http://rdpolytech.ca)

