WHAT HAPPENS NEXT MATTERS MOST.

2019-2020
Academic Calendar
and Course Catalogue

BE READY.

Lethbridge College

LETHBRIDGE

Lethbridge is a great city in which to live and study. Lethbridge has a small-town atmosphere with big-city amenities and is close to many other great destinations. The B.C. and U.S. borders are only an hour away, and a two-hour drive takes you to world class ski resorts, Calgary or Waterton Lakes National Park.

20-minute walk from our campus:

- great food and drinks, from coffee shops and weekend brunch spots to a wide variety of food offerings from around the world
- lots of nightlife options including bars, pubs and a great local music scene
- grocery stores and big box stores
- fitness facilities, an indoor soccer centre and the home rink of the WHL's Lethbridge Hurricanes and major concerts and performances

10-minute drive from our campus:

- major shopping centres, theatres, restaurants, pubs and even more nightlife
- art galleries and museums
- Oldman River valley, parks, gardens, and biking and hiking trails
- golf courses, slow-pitch fields, soccer fields and baseball diamonds

CONNECT

exploresouthwestalberta.ca
lethbridge.ca
chooselethbridge.ca

The Lethbridge College Academic Calendar is published annually for the information of students, prospective students, educators and the public. Every effort has been made to ensure its accuracy and completeness. Lethbridge College reserves the right to make changes to any information contained in the calendar. All information is current at the date of printing or posting. The college reserves the right to make changes without notice or obligation. Please consult the Lethbridge College website for the most current information.

All fees and program costs are approximate and subject to change without notice. To ensure an accurate quote, contact Student Awards and Financial Aid or the program chair listed in the program profile.

The submission of an Application for Admission implies the student agrees to be bound by the rules and regulations in existence or as made, modified or amended from time to time by the Board of Governors of Lethbridge College, or by persons who, by virtue of delegation or authority may make, modify or amend rules and regulations.

Applicants and students are responsible for the continuing completeness and accuracy of their individual academic records and for ensuring they satisfy the graduation requirements of the program in which they are enrolled.

WHAT HAPPENS NEXT MATTERS MOST.

Welcome! It is my true pleasure to welcome you to our community.

At Lethbridge College, we're more than bricks and mortar. We're a place of people coming together. And we know that our job is to make sure you're ready for yours. We hope that as a student and (before you know it) a graduate of the college, you'll be ready to create, to innovate and to make a difference in whatever program or career you choose.

This academic calendar is the place to go to get information about the programs, courses and services offered at Lethbridge College. Within these pages, you'll get a sense of what you can expect from your Lethbridge College education: excellence, relevance and a road map to your future. Think of it as your guide to be ready for life as a Lethbridge College student – it provides the roadmaps and recommendations you will need during your time as a student.

I invite you to come experience the excitement and energy on campus and remember that as a Lethbridge College student…

- You'll be ready to learn about what you love from world-class instructors. They are truly great teachers and have real-life experience in and passion for doing what they teach.
- You'll be ready to benefit from our advisory committees, whose members help us ensure that your learning experience is relevant and provides you with the valuable skills and education required for the workforce.
- You can take part in applied research opportunities, working directly with faculty and industry, to solve real-world problems.
- You can chose from over 50 career-training programs, applied degrees and apprenticeships, many of which are nationally-recognized and nationally-accredited. You'll be active in your education and an important voice in classroom conversations as you prepare to be a valued member of your chosen field.
- You'll be ready to experience a truly hands-on education, and you can make connections with people and ideas that can make big changes at home and around the world.

I also want to encourage you to take advantage of all of the opportunities we offer you and to immerse yourself in the Kodiaks community – whether by participating in or rooting for our athletics teams, joining a club, being a part of the students' association or just hanging out with your friends in the Cave.

We have no shortage of ways for you to be ready to become a part of our diverse, thriving, positive, engaged community, and we wish you success along the way.

Paula Burns, PhD, MBA
Lethbridge College President and CEO

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Academic Schedule 2019-2020

Summer 19S1 (July to August 2019)

July 1	Monday	College Closed (Canada Day)
July 2	Tuesday	Summer Term Begins
July 4	Thursday	Fees Due
July 4	Thursday	Add/Drop Ends
July 10	Wednesday	Extended Drop Ends
August 5	Monday	College Closed (Heritage Day)
August 16	Friday	Last Day to Withdraw Last Day of Classes
August 19 & 20	Monday & Tuesday	Final Exams
August 23	Friday	Final Grades Due to Registrar by 8:30 a.m.

Fall 19FL (September to December 2019)

September 2	Monday	College Open (Labor Day)
September 3	Tuesday	New Student Orientation
September 3	Tuesday	Domestic Application Deadline for September 2019
September 4	Wednesday	Fall Term Begins
September 11	Wednesday	Fees Due
September 11	Wednesday	Add/Drop Ends
September 24	Tuesday	Extended Drop Ends
October 1	Tuesday	International Application Deadline January 2020
October 14	Monday	College Closed (Thanksgiving Day)
November 8	Friday	Fall Reading Break
November 11	Monday	College Closed (Remembrance Day)
December 6	Friday	Last Day to Withdraw Last Day of Classes
December 9 – 13	Monday – Friday	Final Exams
December 18	Wednesday	Final Grades Due to Registrar by 8:30 am
Dec 25 – Jan 1	Wednesday – Wednesday	College Closed (Christmas break)

Winter 20WN (January to April 2020)

January 2	Thursday	College Open
January 3	Friday	Domestic Application Deadline for January 2020
January 6	Monday	Winter Term Begins
January 13	Monday	Fees Due
January 13	Monday	Add/Drop Ends
January 24	Friday	Extended Drop Ends
February 1	Saturday	International Application Deadline for May 2020
February 17	Monday	College Closed (Family Day)
February 18 – 21	Tuesday - Friday	Reading Week
April 10	Friday	College Closed (Good Friday)
April 13	Monday	College Closed (Easter Monday)
April 15	Wednesday	Last Day to Withdraw Last Day of Classes
April 18, 20-23	Saturday, Monday – Thursday	Final Exams
April 24	Friday	Convocation
April 28	Tuesday	Final Grades Due to Registrar by 8:30 am

Spring-Short 20S2 (May to June 2020)

May 1	Friday	Domestic Application Deadline for May 2020
May 4	Monday	Spring (Short) Term Begins
May 6	Wednesday	Add/Drop Ends
May 11	Monday	Fees Due
May 12	Tuesday	Extended Drop Ends
May 18	Monday	College Closed (Victoria Day)
June 1	Monday	International Application Deadline for September 2020
June 19	Friday	Last Day to Withdraw Last Day of Classes
June 22 & 23	Monday & Tuesday	Final Exams
June 26	Friday	Final Grades Due to Registrar by 8:30 am

Spring-Long 20SM (May to August 2020)

May 1	Friday	Domestic Application Deadline for May 2020
May 4	Monday	Spring (Long) Term Begins
May 11	Monday	Fees Due
May 11	Monday	Add/Drop Ends
May 18	Monday	College Closed (Victoria Day)
May 25	Monday	Extended Drop Ends
June 1	Monday	International Application Deadline for September 2020
July 1	Wednesday	College Closed (Canada Day)
July 31	Friday	Last Day to Withdraw Last Day of Classes
August 3	Monday	College Closed (Heritage Day)
August 4-7	Tuesday - Friday	Final Exams
August 12	Wednesday	Final Grades Due to Registrar by 8:30 am

Academic Schedule 2020-2021

Summer 20S1 (July to August 2020)		
July 1	Wednesday	College Closed (Canada Day)
July 6	Monday	Summer Term Begins
July 8	Wednesday	Fees Due Add/Drop Ends
July 14	Tuesday	Extended Drop Ends
August 3	Monday	College Closed (Heritage Day)
August 21	Friday	Last Day to Withdraw Last Day of Classes
August 24 & 25	Monday & Tuesday	Final Exams
August 28	Friday	Final Grades Due to Registrar by 8:30 a.m.
Fall 20FL (September to December 2020)		
September 7	Monday	College Open (Labour Day)
September 8	Tuesday	New Student Orientation Domestic Application Deadline for September 2020
September 9	Wednesday	Fall Term Begins
September 16	Wednesday	Fees Due Add/Drop Ends
September 29	Tuesday	Extended Drop Ends
October 1	Thursday	International Application Deadline for January 2021
October 12	Monday	College Closed (Thanksgiving Day)
November 11	Wednesday	College Closed (Remembrance Day)
November 12-13	Thursday-Friday	Reading Break
December 11	Friday	Last Day to Withdraw Last Day of Classes
December 14-18	Monday – Friday	Final Exams
December 21	Monday	Final Grades Due to Registrar by 8:30 am
Dec 25 – Jan 1	Friday – Friday	College Closed (Christmas break)
Winter 21WN (January to April 2021)		
January 4	Monday	College Open
January 5	Tuesday	Domestic Application Deadline for January 2021
January 6	Wednesday	Winter Term Begins
January 13	Wednesday	Fees Due Add/Drop Ends
January 26	Tuesday	Extended Drop Ends
February 1	Monday	International Application Deadline for May 2021
February 15	Monday	College Closed (Family Day)
February 16 – 19	Tuesday - Friday	Reading Week
April 2	Friday	College Closed (Good Friday)
April 5	Monday	No Classes (Easter Monday)
April 16	Friday	Last Day to Withdraw Last Day of Classes
April 19-23	Monday – Friday	Final Exams
April 27	Tuesday	Final Grades Due to Registrar by 8:30 am
June 3 & 4	Thursday – Friday	Convocation
Spring-Short 21S2 (May to June 2021)		
May 4	Tuesday	Domestic Application Deadline for May 2021
May 5	Wednesday	Spring (Short) Term Begins
May 7	Friday	Add/Drop Ends
May 12	Wednesday	Fees Due
May 13	Thursday	Extended Drop Ends
May 24	Monday	College Closed (Victoria Day)
June 1	Tuesday	International Application Deadline for September 2021
June 22	Tuesday	Last Day to Withdraw Last Day of Classes
June 24-25	Thursday-Friday	Final Exams
June 29	Tuesday	Final Grades Due to Registrar by 8:30 am
Spring-Long 21SM (May to August 2021)		
May 4	Tuesday	Domestic Application Deadline for May 2021
May 5	Wednesday	Spring (Long) Term Begins
May 12	Wednesday	Fees Due Add/Drop Ends
May 24	Monday	College Closed (Victoria Day)
May 26	Wednesday	Extended Drop Ends
June 1	Tuesday	International Application Deadline for September 2021
July 1	Thursday	College Closed (Canada Day)
August 2	Monday	College Closed (Heritage Day)
August 6	Friday	Last Day to Withdraw Last Day of Classes
August 9-13	Monday - Friday	Final Exams
August 17	Tuesday	Final Grades Due to Registrar by 8:30 am

College Directory

Main Campus **403-320-3200**
Toll Free **1-800-572-0103**
Website . . . . . **www.lethbridgecollege.ca**
Claresholm Campus **403-625-4231**
Pincher Creek Campus **403-563-7041**
Lakeshore Campus **403-388-3082**
Vulcan County Campus **403-485-1488**

Admissions and Registration
Admissions 403-320-3323
General Information 403-320-3323
Registration 403-320-3323
Student Records Information 403-320-3323
Fax Number 1-888-819-9803

Services
Academic & Career Advising 403-320-3202
Accessibility Services . . . . . 403-320-3202 Ext. 5400
Alumni Relations 403-329-7220
Awards and Scholarships 403-320-3372
Be Fit for Life 403-382-6919
Bookstore 403-320-3308
Buchanan Library 403-320-3352
Campus Recreation . . . . . 403-320-3202 Ext. 5303
Chaplaincy Services 403-382-0294
Corporate and Continuing Education 403-320-3288
Day Care Centre 403-320-3430
Finance 403-382-6901
Financial Aid 403-320-3372
Garden Court Restaurant 403-320-3230
Health & Shepell Counselling Services 403-320-3289
Kodiaks Athletics 403-382-6900
Learning Cafe 403-382-6952
Learning Support Services 403-320-3244
MyHorizon Portal 403-320-3352
Online Learning 403-320-3323
Parking 403-320-3223
Physical Education Facilities 403-382-6903
Printing - Grenville the Copy Store 403-320-3255
Residence 403-329-7218
Recruitment 403-320-3322
Security Services 403-320-3206
Services for Indigenous Learners . . . . . 403-320-3202 Ext. 5731
Services for International Learners . . . . . 403-320-3202 Ext. 5532
Student Employment &
Professional Development . . . . . 403-320-3202 Ext. 4905
Student Experience 403-320-3202 Ext.5256
Student for a Day/Campus Tours 403-320-3322
Students' Association 403-320-3373
Students' Health & Dental Plan 403-320-3202 Ext.5310
Testing Services 403-320-3368

Programs
Academic Upgrading 403-329-7269
Administrative Office Professional 403-320-3213
Agricultural Enterprise Management 403-320-6991
Agriculture and Heavy Equipment Technician 403-320-3411
Agriculture Sciences 403-382-6991
Architectural Animation Technology 403-320-3468
Automotive Systems 403-320-3411
Bachelor of Nursing Degree (NESA) 403-320-3348
Bachelor of Nursing - After Degree 403-320-3348
Business Administration 403-320-3213
Child and Youth Care 403-320-3393
Civil Engineering Technology 403-320-3468
Commercial Vehicle Enforcement 403-329-7246
Computer Information Technology 403-320-3468
Conservation Enforcement -
Bachelor of Applied Science 403-382-6991
Correctional Studies 403-329-7246
Criminal Justice - Policing 403-329-7246
Culinary Careers 403-320-3245
Digital Communications and Media 403-320-3468
Early Childhood Education 403-320-3393
Ecosystem Management -
Bachelor of Applied Science 403-382-6991
Educational Assistant 403-320-3393
Engineering Design and Drafting Technology 403-320-3468
Environmental Assessment and Restoration 403-382-6991
Exercise Science 403-394-7338
General Studies 403-394-7338
General Studies, Indigenous Career Pathways 403-394-7338
Geomatics Engineering Technology 403-320-3468
Health Care Aide 403-320-3310
Interior Design Technology 403-320-3468
Justice Studies - Bachelor of Applied Arts 403-329-7246
Massage Therapy . . . . . 403-320-3202 Ext. 3211
Medical Device Reprocessing 403-320-3310
Multimedia Production 403-320-3468
Natural Resource Compliance 403-382-6991
Pathway to English and Academic Culture 403-329-7223
Police Cadet Training 403-329-7246
Practical Nursing 403-320-3211
Renewable Resource Management 403-382-6991
Therapeutic Recreation (Gerontology) . . . . 403-320-3202 Ext. 3211
Unit Clerk Training 403-320-3310
Virtual & Augmented Reality Certificate Program 403-320-3468
Wind Turbine Technician 403-320-3411

Programs Listed Alphabetically

- Academic Upgrading
- Administrative Office Professional
- Agricultural & Heavy Equipment Technician
- Agricultural Enterprise Management
- Agriculture Sciences
    - Animal Science Major
    - Plant and Soil Sciences Major
- Apprenticeship Training
    - Agricultural Equipment Technician
    - Automotive Service Technician
    - Baker
    - Carpenter
    - Cook
    - Electrician
    - Heavy Equipment Technician
    - Parts Technician
    - Plumber
    - Plumber and Gasfitter (B)
    - Welder
    - Welder – Wire Process Operator
- Architectural Animation Technology
- Automotive Systems
- Bachelor of Nursing (NESA)
- Bachelor of Nursing - After Degree
- Business Administration
    - Accounting Major
    - General Business Major
    - Management Major
    - Marketing Major
- Child and Youth Care
- Civil Engineering Technology
- Commercial Vehicle Enforcement
- Computer Information Technology
- Conservation Enforcement - Bachelor of Applied Science
- Correctional Studies
- Criminal Justice – Policing
- Culinary Careers
- Digital Communications and Media
- Early Childhood Education
- Ecosystem Management – Bachelor of Applied Science
- Educational Assistant (Online Learning Only)
- Engineering Design and Drafting Technology
- Environmental Assessment and Restoration
- Exercise Science
- General Studies, Indigenous Career Pathways
- General Studies

    Liberal Arts Majors
    - English Major
    - Psychology and Sociology Major
- Geomatics Engineering Technology
- Health Care Aide
- Interior Design Technology
- Justice Studies - Bachelor of Applied Arts
- Massage Therapy
- Medical Device Reprocessing
- Multimedia Production
- Natural Resource Compliance
- Pathway to English and Academic Culture
- Police Cadet Training
- Practical Nursing
- Renewable Resource Management
- Therapeutic Recreation - Gerontology
- Unit Clerk Training
- Virtual and Augmented Reality
- Wind Turbine Technician

Programs Listed By School

Pathway to English and Academic Culture

School of Academic Upgrading
- Academic Upgrading

School of Agriculture
- Agricultural Enterprise Management
- Agriculture Sciences
    - Animal Science Major
    - Plant and Soil Sciences Major

School of Allied Health
- Health Care Aide
- Medical Device Reprocessing
- Unit Clerk Training

School of Business
- Administrative Office Professional
- Business Administration
    - Accounting Major
    - General Business Major
    - Management Major
    - Marketing Major

School of Construction Trades
- Carpenter Apprenticeship
- Electrician Apprenticeship
- Plumber Apprenticeship
- Welder Apprenticeship
- Welder – Wire Process Operator Apprenticeship

School of Culinary Arts
- Baker Apprenticeship
- Culinary Careers
- Cook Apprenticeship

School of Engineering Technologies
- Civil Engineering Technology
- Engineering Design and Drafting Technology
- Geomatics Engineering Technology

School of Environmental Sciences
- Conservation Enforcement - Bachelor of Applied Science
- Ecosystem Management – Bachelor of Applied Science
- Environmental Assessment and Restoration
- Natural Resource Compliance
- Renewable Resource Management

School of Health Sciences
- Bachelor of Nursing (NESA)
- Bachelor of Nursing - After Degree
- Massage Therapy
- Practical Nursing
- Therapeutic Recreation - Gerontology

School of Human Services
- Child and Youth Care
- Early Childhood Education
- Educational Assistant (Online Learning only)

School of Information Technology
- Computer Information Technology

School of Justice Studies
- Correctional Studies
- Criminal Justice - Policing
- Justice Studies - Bachelor of Applied Arts

School of Liberal Arts & Life Sciences
- Exercise Science
- General Studies
    - *Liberal Arts Majors*
    - English
    - Psychology and Sociology
- General Studies, Indigenous Career Pathways

School of Media & Design
- Architectural Animation Technology
- Digital Communications and Media
- Interior Design Technology
- Multimedia Production
- Virtual and Augmented Reality

School of Public Safety
- Commercial Vehicle Enforcement
- Police Cadet Training

School of Renewable Energy
- Wind Turbine Technician

Crooks School of Transportation
- Agricultural & Heavy Equipment Technician
- Agricultural Equipment Technician Apprenticeship
- Automotive Systems
- Automotive Service Technician Apprenticeship
- Heavy Equipment Technician Apprenticeship
- Parts Technician Apprenticeship

Admission

ADMISSION
We are delighted you are considering applying to a Lethbridge College program. To ensure you are aware of the application and admission processes, please read through the information below.

GENERAL INFORMATION
An individual who has applied to a Lethbridge College program is referred to as an Applicant. Once an Applicant has accepted their Offer of Admission and paid the associated tuition deposit they are referred to as a Student.

The admission requirements and other information listed below apply to full-time and part-time admission status in a Lethbridge College designated program.

Applicants interested in enrolling in credit courses outside of a designated program of study may choose to enroll as an Open Studies student.

Admission to Lethbridge College programs are generally processed on a first-qualified, first-served basis; however, some programs may use a competitive selection process and limit applications. Programs that use a competitive selection process will have this identified on their program page.

Full-time status in a Fall, Winter or Spring (Long) term is gained when a student is enrolled in 9 (or more) credits. If enrolled in less than 9 credits the status is part-time. Full-time status in a Spring (Short) or Summer term is gained when a student is enrolled in 4.5 (or more) credits. If enrolled in less than 4.5 credits the status is part-time.

Basic computer skills using the internet, e-mail, and word processing are recommended in order for students to be successful. Students lacking these skills are strongly urged to complete a basic computer literacy course prior to entering their program.

APPLICATION FOR ADMISSION
Lethbridge College is a participating institution of the Alberta Post-secondary Application System (ApplyAlberta). ApplyAlberta provides individuals with the opportunity to authorize transfer of Alberta high school and/or post-secondary transcripts between participating institutions. For more information about ApplyAlberta, please visit applyalberta.ca.

You can apply online by going to lethbridgecollege.ca/apply.

A $90 CAD non-refundable, non-transferable processing fee must accompany your application. When applying online, you can use your VISA or Mastercard on our secure site.

Applicants are given one (1) opportunity to move their application, for the same term, from one program to a different program by completing a Change of Program form prior to the application deadline - with no additional application processing fee. Current students wishing to change programs for a future term may do so by completing a Change of Program form.

APPLICATION DEADLINES
Applications must be received no later than the date specified in the Academic Schedule for domestic and international applications. These dates are outlined in the Academic Schedule at the front of the Lethbridge College calendar. Some programs have limited enrolment so we recommend applying early.

Admission Routes:
There are six routes for admission to Lethbridge College:
- High School
- Transfer
- Mature
- International
- Pathways to Advanced Learning
- Open Studies

The admission route the applicant is considered under will be determined by Lethbridge College based on one of the following:

1) High School – Applicants must provide high school transcripts showing successful completion of a Canadian high school diploma from a publicly funded institution with successful completion of an English 30-2 or equivalent course. [Note: See tables below for a list of programs that have additional academic requirements, or for programs that do not require a high school diploma for admission.]

2) Transfer – Applicants must provide post-secondary transcripts showing successful completion of a minimum of three (3) post-secondary level credit courses from a publicly funded Canadian accredited institution and be in good academic standing. To be considered, these courses must have been completed within the last five (5) years. [Note: See tables below for a list of programs that have additional academic requirements, or for programs that do not require a high school diploma for admission.]. Applicants requiring a high school math course may complete an assessment (refer to Placement Assessment Procedures).

3) Mature – Applicants applying through the mature admission route do not require a high school diploma. The applicant must:
- Be 19 years of age or older by the last day of the term in which they applied, and
- Meet the English requirement through one (1) of the following:
    - Successful completion of a Grade 12 English course (minimum English 30-2 or equivalent including Lethbridge College's ENG 0032)
    - Successful completion of a Post-Secondary English course
    - Assessment – refer to Placement Assessment Procedures

[Note: See tables below for a list of programs that have additional academic requirements, or for programs that do not require a high school diploma for admission.]

4) International – An international applicant or exchange student must present qualifications comparable to those of Canadian applicants which include meeting the English language proficiency requirement. International applicants and exchange students whose first language is not English, except those applying to Pathway to English and Academic Culture (PEAC) must demonstrate English language proficiency by providing documentation for one (1) of the following:
- Completion of Grade 12 English (minimum English 30-2 or equivalent)
- Successful completion of all three (3) of the following Lethbridge College EAP courses with a minimum grade of C:
    - EAP 0096 Academic Writing
    - EAP 0097 Academic Communication
    - EAP 0098 Academic Reading

Admission

- Official International English Language Testing System Academic (IELTS) score of 6.0 with no band below 5.5, taken within the last two (2) years
- Official Test of English as a Foreign Language (TOEFL) score of 550 (213 if computer-based testing) or iBT score of 80 taken within the last two (2) years
- Pearson (PTE) with a minimum score of 54 completed within the last two (2) years
- Canadian Academic English Language (CAEL) Assessment with a minimum overall score of 60, with a minimum 50 in each of Listening, Reading, and Speaking, and 60 in Writing completed within the last two (2) years
- Successful completion of at least one (1) transfer level post-secondary English course from an accredited English speaking post-secondary school

[Note: See tables below for a list of programs that have additional academic requirements; or for programs that do not require a high school diploma for admission.]

5) Pathways to Advanced Learning – Students wishing to access laddering opportunities into advanced credentials will ensure admission requirements are met for the next level program. The student should contact an Academic Advisor.

6) Open Studies – An individual wishing to register in Lethbridge College credit courses without applying to a designated program of study may register as an Open Studies student. The following conditions apply:

- Open Studies students must meet individual course pre-requisite requirements for each course in which they register.
- Open Studies students may only enroll as part-time students. If a student requires full-time status, they must apply to a Lethbridge College program.
- Students enrolled in Open Studies are not eligible to earn a program credential through cumulative course work without applying and being admitted to a designated program prior to their last term of study. Once admitted to a program they must comply with the program requirements related to their year of admission.

Note: The following table outlines additional academic requirements by program area. The minimum grade required is 50% unless otherwise stated, or successful completion of a higher level course.

Program	Gr. 12 Math (30-1)	Gr. 12 Math (30-2)	Gr. 11 Math (20-1)	Gr. 12 Biology	Gr. 11 Biology	Gr. 12 Chemistry	Gr.11 Chemistry	Gr. 11 Physics	Gr. 12 Science
Agricultural Enterprise Management	■ OR	■							
Architectural Animation Tecnology	■ OR	■							
Business Administration	■ OR	■							
Civil Engineering Technology	50% OR	60%						■ OR	■
Computer Information Technology	■ OR	■							
Engineering Design and DraftingTechnology	50% OR	60%						■ OR	■
Environmental Assessment and Restoration	■ OR	■			■		■		
Exercise Science	OR			■					
Geomatics Engineering Technology	50% OR	60%						■ OR	■
Interior Design Technology	■	■							
Massage Therapy	OR			■					
Natural Resource Compliance	■	■			■				
NESA (for information only) Refer to University of Lethbridge Academic Calendar.									
Practical Nursing *Refer to program page for additional requirements			60%	60%					
Renewable Resource Management	■ OR	■			■		■		
Therapeutic Recreation - Gerontology *Refer to program page for additional requirements				■					

Admission

In all cases, equivalencies to courses required for program admission will be considered.

The following table identifies programs that do not require a high school diploma; specific high school courses required for admission are listed. The minimum grade is 50% unless otherwise stated.

Program	Gr. 11 English	Gr. 10 English	Gr. 11 Math	Gr. 10 Math
Agriculture Heavy Equipment	■		■	
Automotive Systems	■		■	
Culinary		■		■
Health Care Aide		■		

If assessment is being completed in lieu of academic requirements, the following minimum placement scores will be required to fulfill admission requirements. These placement scores represent a passing grade of 50% for the listed courses. Programs requiring a higher completion grade for a specific course may have higher placement score requirements than those listed.

Subject and Grade Level	Reading	Write Placer	Arithmetic	Quantitative Reasoning, Algebra and Statistics (QAS)
English – Grade 12	251	6+		
English – Grade 11	246	5+		
English – Grade 10	241	4+		
Math – Grade 12			260	249
Math – Grade 11			260	245
Math – Grade 10			245	241

Lethbridge College does not provide alternative assessment for the sciences; therefore, successful completion of those courses is required for admission.

ACADEMIC UPGRADING
In some cases, applicants may require further upgrading in order to be eligible for admission into programs and may choose Academic Upgrading to fulfill these requirements.

An applicant entering the Academic Upgrading program will be placed in relevant courses according to the highest high school courses if completed within the last three (3) years.

An applicant entering the Academic Upgrading program whose most recent high school education is over three (3) years old OR has no high school courses will complete an assessment for placement recommendations. Refer to Placement Assessment Procedures below.

TRANSCRIPTS
Official transcripts are the academic records from any high school, college, technical institute or university you have attended. An official transcript is sent directly from a provincial department of education and/or from other institutions to the Admissions Office at Lethbridge College. The Admissions Office will notify you of required transcripts.

Applicants who apply through ApplyAlberta will be able to authorize the transfer of their Alberta high school and/or post-secondary transcripts to Lethbridge College at the time of application.

Current High School Students – If you are currently enrolled in Grade 12 courses, you may report on your courses in progress by submitting a schedule from the high school showing your course enrolment.

High School Transcripts from Other Provinces – Transcripts may be obtained by contacting the appropriate education board of the province in which you attended or are attending high school. Ontario, Quebec, New Brunswick, Nova Scotia, and PEI high school students can request transcripts directly from the high school attended.

Official transcripts should be sent directly to Lethbridge College in a sealed envelope from the school attended.

Post-Secondary Transcripts – Transcripts from post-secondary institutions must be issued in a sealed envelope, signed by the institution and bear the official seal. At your request, an official transcript is sent directly from the institution to the Admissions Office at Lethbridge College. In order to obtain official copies of your post-secondary transcripts, contact the Registrar's Office of the institution(s) that you attended.

Apprenticeship and Pathway to English and Academic Culture (PEAC) applicants are not required to submit high school or post-secondary transcripts.

All transcripts submitted to the college become the property of Lethbridge College. Neither the original transcript nor copies will be released to you or anyone outside the college.

The transcripts and other supporting documentation of all applicants who are not admitted or who do not attend are destroyed. If you wish to re-apply at a later date, a new set of documents must be supplied.

NOTIFICATION OF ADMISSION STATUS
As an applicant, you will be assigned a Lethbridge College (LC) student ID number. This student ID number will provide you with access to the MyHorizon Portal which includes self-service options including LC e-mail message centre, admission status, required admission documents, class schedule, web registration, and billing information. Applicants are responsible for monitoring the online portal. E-mail is the primary method of communication with the applicant.

Once accepted, an Offer of Admission is mailed to the applicant's address on file. An applicant will be required to confirm their acceptance by signing and returning their acceptance letter along with the required tuition deposit by the deadline indicated in their letter. A portion of the tuition deposit is refundable prior to 20 business days before the first day of the term, after which the entire deposit is non-refundable. Likewise, international deposits are partially refundable up to the posted international deposit refund deadlines (August 1 for Fall, December 1 for Winter, and April 1 for Spring). Applicants who withdraw by the deadline will be eligible for a 50% refund or a 70% refund if they also submit a visa refusal letter prior to the first day of classes (provided that they have withdrawn before the deadline).

APPLICANT AND STUDENT RECORDS
Any information concerning you, including all documentation provided in support of your Application for Admission, will be kept confidential. Information concerning you will be released to third parties only upon your written authorization. For information, see the Student Records (Collection, Access To and Disclosure of Information) Policy in the academic policies.

Lethbridge College will not be responsible for incorrect mailings or for missed deadlines due to an applicant's failure to report a change of address or to have supporting admission documents delivered to Lethbridge College by the dates required.

PLACEMENT ASSESSMENT PROCEDURES
Individuals applying to the Academic Upgrading program may be evaluated to measure their proficiency in English reading and writing and/or math skills for accurate placement in upgrading courses at Lethbridge College.

Individuals applying through the Mature Admission Route may be evaluated for proficiency in:
- English reading and writing skills required for admission to Lethbridge College.
- Math skills required for admission to some Lethbridge College programs.

Individuals applying through the Transfer Admission Route may be evaluated for proficiency in:
- Math skills required for admission to some Lethbridge College programs.

Applicants who require assessment will be notified by the Admissions Department.

Applicants are responsible for booking their own appointment with Testing Services at least one (1) business day in advance of the assessment. Applicants requiring administration of assessment at an external location require additional advance notification.

If assessment results do not meet the admission requirements:
- Applicants are advised that they have one (1) additional opportunity (if time allows) to be evaluated on those skill areas which fall below the requisite placement scores;
- A minimum two (2) week period after initial assessment must pass before an applicant will be reassessed.

If the second assessment results do not meet the admission requirements:
- Applicants must wait a minimum of three (3) months from the last assessment date before being re-evaluated;
- An applicant is responsible for payment of a fee if a third attempt is required within a twelve (12) month period.

Placement decisions are based on an applicant's assessment results, which remain valid for a period of two (2) years. Post-secondary placement decisions are relevant regardless of the program to which the applicant applies.

An applicant may be assessed a maximum of three (3) times within a twelve (12) month period.

Applicants may consult with an Academic Advisor to discuss upgrading courses that will fulfill admission requirements.

RETURNING AFTER AN ABSENCE
An application to return after an absence is subject to the following conditions:
a. Approval to return after an absence is based on space availability and requires Registrar approval.
b. An individual accepted to return after an absence are governed by the Academic Calendar pertaining to their year of re-admission as outlined in college policy and procedure related to graduation requirements.
c. With Great Distinction, With Distinction, Honours, Good or Probationary Status – An Individual whose previous academic standing was With Great Distinction, With Distinction, Honours, Good or Probationary may return to their program after an absence of one (1) term [or two (2) consecutive terms when one (1) of the terms include the spring/summer term] by completing a Return to Program form. There is no charge associated with this process. In all cases, a continuous absence that includes a Fall and Winter term requires a new application (with associated application processing fee) to Lethbridge College.
d. Disqualified Status – An individual may apply for re-admission to Lethbridge College provided they have not had two (2) disqualified standings in their last two (2) terms of enrolment.

An individual who has had a disqualified status in their last two (2) terms of enrolment will not be considered for admission for the next immediate term following the second disqualification. A minimum of one term (fall or winter) must elapse after the second disqualification standing was imposed in order to be considered for re-admission. Re-admission after a disqualified status as defined above will be considered upon submission of a new application and the applicable application processing fees to Lethbridge College.

TRANSFER CREDIT
Transfer credit is credit given for course work successfully completed at one post-secondary institution and transferred towards the completion of a credential at another post-secondary institution.

Admission

Lethbridge College has established transfer agreements with many other colleges, institutes, and universities which make it easy for Lethbridge College students to access additional learning opportunities. You may meet admission requirements or avoid duplicate coursework by applying your Lethbridge College credential as transfer credit with any of our numerous partner institutions.

Discover where your Lethbridge College education can take you! Visit www.transferalberta.ca or speak with an Academic Advisor to research your future opportunities.

REGISTRATION
Registration is the process where you select or are enrolled in the course or courses required to complete your program of study at Lethbridge College. Registration occurs after confirmation of the Offer of Admission.

Information regarding registration will be e-mailed to you. You are encouraged to monitor your College e-mail account for possible updates. You are encouraged to review your Program Evaluation through WebAdvisor to track your program completion requirements.

Your acceptance of our offer assumes that you are bound by the rules and regulations of the College and that you and/or sponsoring agency agree to be responsible for the fees associated with registration as of the acceptance date.

Please ensure you are registered prior to the term start date by accessing your schedule through the MyHorizon Portal under WebAdvisor. (Refer to the Academic Schedule on Page 3 of the calendar.)

POLICIES
Policies are a guide to organizational operation and behavior. Members of the Lethbridge College community are governed by policies that are consistent with College values. It is the responsibility of students to be aware of, and comply with, all relevant policies. Full policy information is available on our website: http://www.lethbridgecollege.ca/about-us/policies-procedures.
The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant polices such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at policy@lethbridgecollege.ca.

Financing Your Education

FINANCING YOUR EDUCATION

Student Loan Basics
You must apply for government student loans through your province of residence; this is wherever you have lived most recently for the last 12 months in a row while not attending a post-secondary institution on a full-time basis.

Application Time Lines
New student loan applications are updated annually and are typically available by mid-June. You can apply for student loan funding any time after this; up until six weeks before your study period ends.

What information do I need to apply?
If you are applying for an Alberta loan electronically, most of the required information will be available to you online. As long as you have correctly entered the institution and the program name and selected the correct study period from the drop-down boxes during which you plan to be full-time, the maximum tuition, fees, and book amounts will be displayed. You may request less than the maximum, but not more.

If you are an out-of-province student or using a paper application, these program-related costs will be available through the Lethbridge College website on the appropriate program page. (Note: Students in Year 1 or 2 of NESA or Year 1 of After Degree Nursing must apply for loans as Lethbridge College students even though they apply for admission through the University of Lethbridge.)

If you are a “dependent” student applying for an Alberta Student Loan, you will only need information and signatures from your parents if you would like to be considered for federal grants. Students in other provinces must provide parental information and signatures if they are considered to be dependents by their province.

Alberta students may apply online at studentaid.alberta.ca. You will need your Social Insurance Number, Alberta Student Number and Line 150 from your most recent tax return (and that of your parents/ spouse if applicable).

Note: In some circumstances, students may require paper applications.

How do I qualify?
First you must demonstrate financial need. Education is considered to be an investment on the part of the student, the family and the government (taxpayer dollars cover your interest while you are in school). You must have a provincially-established minimum amount of savings to contribute yourself (this amount varies by province and circumstance) and when it is deemed appropriate, parents may also be expected to contribute. It is essential that students take care of outstanding financial issues prior to attending college; servicing debts while on a student loan is extremely difficult and the pressure this involves may jeopardize your academic success.

Please note that government-sponsored student loans are restricted to those students in post- secondary classes on a full-time basis. Upgrading classes cannot comprise any of the 9 credits per term that is designated as the Lethbridge College ‘full-time’ minimum requirement. Post-secondary students studying at a level below 9 credits per term may be eligible for part-time Canada Student Loans.

Part-time loan applications are available as PDF printable forms through studentaid.alberta.ca, but they require authorization by Lethbridge College’s Financial Aid staff.

What do I do after I submit my loan application?
In most cases you will be apprised immediately of your funding assessment; however, if you have applied with a paper application or there are any special circumstances attached to your application, processing times can take up to six weeks. Applying early ensures that your funding has adequate time to arrive at the start of your studies. Be sure to check the email address you used for your application as you will be notified to log into the online portal. All documentation is now sent electronically only. All approval letters, requests for information and so on will be accessible via the online portal under your username and password. If you do not have access to a computer or due to error cannot apply online, you must call Student Aid at 1-855-606-2096 to request a paper application.

Review the Student Award Letter. This documents the type, amount, and disbursement date of all the funding you will receive during your academic year. It must cover your entire period of studies so budget accordingly.

All documents can be accessed online via the SIAMS portal on the Student Aid website. Physical documents are no longer sent in the mail so be sure to regularly check your Student Aid account.

What do I do with my Master Student Financial Aid Agreement (MSFAA)?
Your Master Student Financial Aid Agreements will be accessible to print off from your Student Aid Account within 48 hours of your loan being approved. The documents will no longer be sent in the mail and are only accessible online. Sending in this/these document(s) will release your loan once Lethbridge College Financial Aid staff have electronically confirmed your full-time status and, depending on timing, requested an amount to be remitted directly to Lethbridge College. This amount is limited to the balance of tuition and fees you owe for the term you are just about to enter (unless you are receiving a Saskatchewan loan – contact awards @lethbridgecollege.ca if you have questions about this). Fees for residence, laptop and daycare amounts cannot be requested from student loans. If you are not assessed for a second loan disbursement near your second term and/or if your student loan award is not sufficient to cover your fees, you will be responsible for making those payments directly to Lethbridge College. Your MSFAA is typically required only once, when you first apply for loans, unless you take a break from studies (you will not be required to do one each year even though you are required to apply for loans annually).

You are to take your provincial MSFAA to a designated post office (a list of these is provided with your documents – not every post office can process these) along with photo ID, your Social Insurance Card and banking information or a VOID cheque (two if you receive two MSFAA’s as is the case for Alberta borrowers). These have to be reviewed and stamped by trained staff at the postal outlets and then mailed to the addresses provided. If you do not have your SIN card, you need to go to a Service Canada outlet and ask for a printout with your SIN on it. Student Aid is no longer accepted tax return NOA as proof of SIN.

As of April 3, 2018, Canada MSFAAs must be completed electronically. Login to your Student Aid account and check your inbox for a letter with instructions for this process.

Fees and Financial Information

Your completed MSFAA will trigger the release of your student loans by the lender. If any loan balance remains, it will be deposited into your bank account. The time it takes for this to occur varies, but students can generally expect their funds to appear in their bank accounts two weeks after processing the MSFAA though not prior to the release date on the Student Award letter.

What if I withdraw from my program or drop below full-time requirements?
If you drop below the 9-credit per term requirement, your loan will be cancelled. Your provincial and the federal government's student aid office will be notified and any further funding will be stopped. If you don't reapply for a loan and register as a full-time student within six months, your repayment will begin six months after your date of withdrawal from full-time studies.

If you have received grant monies, the lender will contact you about options and will likely reassess a pro-rated portion as loans when you go into repayment.

The payment of all fees and deposits is mandatory. Lethbridge College Board of Governors reserves the right to change fees and deposits when necessary and without notice. Students enrolled in all terms pay tuition, Technology Infrastructure Fee, and the Athletics Fee. In addition, Students' Association fees, including student health and dental insurance, are set by the Students' Association and are collected by the College on their behalf.

WHERE CAN I PAY MY FEES?
You can make payments 24 hours a day, 365 days a year through your financial institution via telephone/online banking. Please ensure that all payments made through your financial institution will be received by Lethbridge College in sufficient time to be processed by the fee due dates. Please refer to the Lethbridge College website for other payment methods which are available for your payment convenience.

Learners provided with a user name and password will have access to our Internet portal for payments with MasterCard and Visa and to view their account status. T2202A tax forms are also provided via the portal. **Effective January 2019, the Canada Revenue Agency requires collection of the Social Insurance Number for the issuance of the T2202A tax form.**

Payments for all tuition and fees can be made in the Finance office and/or the Registrar's office. Tuition payments made by credit card can only be made online, and there is a convenience fee charged for this service. For all other payments, the Finance office is open 8:30 a.m. to 4:30 p.m. Monday through Friday. It is located on the second floor of the Centre Core, Room CE2310. The Registrar's office is open 8 a.m. to 4:30 p.m. Monday through Friday and is located on the main floor, adjacent to the Centre Core, Room PA1130.

When do I need to pay my tuition and fees?
All fees are due and payable, by the last day of the add/drop period. The 2019-2020 fees are due for the following terms:

Term	Due Date
Summer I Term (July - August)	July 4, 2019
Fall Term (September - December)	September 11, 2019
Winter Term (January - April)	January 13, 2020
Spring & Summer II Term (May - June)	May 11, 2020

- Course changes made after the fee payment dates may result in additional fees. These additional fees must be paid at the time the course changes are made. Resulting credit balances may be retained "on account" or a request may be submitted for subsequent refund to the student and/or sponsor.

Non-payment of fees, if appropriate arrangements have not been confirmed with Accounting Services by the due date, will result in the student's registration being cancelled.

It should be noted that non-attendance of classes does not constitute automatic withdrawal. Students must submit a completed Add/Drop form to the Registration Office if they will not be attending classes for which they have been registered.

Students who have applied for and received confirmation that they will be receiving student loans will normally have fees deducted for the current term. Loan borrowers have the option of bringing loan documents to the Financial Aid Office and requesting that both terms' tuition and fees be remitted during the first term. Sponsored students and those applying for a student loan are responsible for making payments or appropriate arrangements with Accounting Services if their sponsorship/loan has not been approved by the due date. Any resulting refunds from payments received through the student loan appropriation will normally be forwarded directly to the loan provider.

2019-2020 Fees

APPLICATION PROCESSING FEE
This $90 CDN non-refundable, non-transferable processing fee must be remitted for each occasion a student applies to Lethbridge College and for each program to which they have applied. Applicants are given one (1) opportunity to move their application, for the same term, from one program to a different program by completing a Change of Program form prior to the application deadline, with no additional application processing fee. Current students wishing to change to another program for a future term may do so by completing a Change of Program form.

TUITION
Tuition fees are based on the credits of the course. Athletic fees, technology fees, supplies, GST, and other fees, as applicable, are assessed and charged in addition to these tuition fees. The 2019-2020 Student Fee Schedules had not been finalized as of the date of publication of this calendar. Please check Lethbridge College's website for the 2019-20 tuition fee rates on courses and programs and other fees that are applicable for these services at lethbridgecollege.ca.

Projected Credit Tuition Rate for Subsequent Periods: The Alberta Advanced Education Tuition Fee Policy requires institutions to publish four-year credit tuition fee projections in their calendars. In addition to the confirmed 2019-20 credit tuition fee rates as listed on the website, the planned credit tuition rates for 2020-21, 2021-22, and 2022-23 will be set in accordance with the parameters of the Tuition Fee Policy.

The projections for the subsequent periods will be based upon the Province of Alberta consumer price index (CPI) rate.

These rates are subject to annual review and adjustment as determined by Lethbridge College's four-year business plan cycle in conjunction with student consultation, athletic fees and certain other fees are not included in these projections as they are not subject to the Provincial Tuition Fee Policy and they may be adjusted annually.

STUDENTS' ASSOCIATION FEES
Student membership fees are established and governed through the bylaws of the Lethbridge College Students' Association (LCSA). LCSA fees are mandatory for all students enrolled in credit courses. LCSA fees are assessed upon College registration and are due and payable under the same terms and conditions as tuition fees.

The 2019-2020 Students' Association fees are assessed at $4.95 per credit for students enrolled in credit courses. Credit courses offered at satellite campuses, through Online Learning and practicum courses, are assessed at $2.22 per credit.

Students' Association fees collected are distributed to the accounts of the LCSA as follows:

Students' Council Fund	59%
Capital Purchase Trust Fund	15%
Campus Recreation Fund	24%
Wellness Fund	2%

HEALTH AND DENTAL PLAN FEES
The LCSA has implemented Extended Health and Dental plans for students. Extended Health and Dental fees are mandatory for all students who meet the eligibility criteria. All LCSA fees are assessed upon College registration and are due and payable under the same terms and conditions as tuition fees.

Fees for the LCSA Health and Dental plans are as follows:

Fall • Provides coverage from September 1, 2019 to December 31, 2019

Health	Dental	Total
$69	$69	$138

Winter • Provides coverage from January 1, 2020 to August 31, 2020

Health	Dental	Total
$69	$69	$138

You may opt-out of the plan if you provide proof of comparable coverage for an extended health and/or dental care benefits plan and complete a waiver form before the opt-out deadline.

Any questions regarding LCSA Fees including the Extended Health and Dental fees should be directed to the LCSA Office 403.320.3373.

TECHNOLOGY INFRASTRUCTURE FEE
This is a compulsory fee assessed to students enrolling in any credit course (except for apprenticeship programs) at Lethbridge College. The fee supports the on-going maintenance and upgrades to administrative systems that support the entire College infrastructure. As such, it is not considered a "fee for instruction" and, therefore, not subject to Alberta Advanced Education Public Post-Secondary Institutions' Tuition Fees Regulations. Any subsequent changes to this fee rate will, however, be included in the consultative process with the student body just as is required with fees applicable under the Tuition Fee Policy guidelines. Visa students are charged the same rate as Canadian residents for this fee.

MOBILE LEARNING
Lethbridge College offers several computer technology intensive programs which incorporate the latest software and hardware into its curriculum to enhance teaching, learning, and graduate employability.

Students enrolled in the following programs are required to purchase a mobile device from Lethbridge College complete with program specific software:
- Architectural Animation Technology
- Civil Engineering Technology
- Digital Communications and Media
- Engineering Design and Drafting Technology
- Geomatics Engineering Technology
- Interior Design Technology

For further information about mobile device fees, go to www.lethbridgecollege.ca/mobilelearning.

ADDITIONAL FEES
There may be additional charges for field trip costs and for other items in a particular course. These charges will form part of the course cost at the time of registration and be in addition to the mandatory fees.

Supplemental Examination:
100% of one credit value of the applicable course tuition fee rate.

Prior Learning Assessment:
Fees assessed for prior learning assessments are based on the credit value of the course.
1.5 learning credit course - $90.00
3.0 learning credit course – $180.00
6.0 learning credit course - $360.00
ACU 6.0 learning credit course - $200.00

Re-registration Fee (post add/drop period): $50 per course section excluding labs and tutorials.

2019-2020 Fees

Students are responsible for printing on campus. Printing cost for a standard black & white 8.5" x 11" copy is 10¢ per page. Larger format and colour copies are also available at a higher cost. (Prices are subject to change).

This excludes printing from our on-campus printer - Grenville the Copy Centre.

PARKING
Paid parking is available on campus at the current approved fee rates.

ACCOMMODATIONS
To view the 2019-20 residence/ accommodation rates, please refer to the online information at lethbridgecollege.ca/ student-experience/housing.

GENERAL REGULATIONS GOVERNING PAYMENT OF FEES
Final confirmation of acceptance will be contingent upon receipt of the required tuition fee deposit or sponsorship confirmation and the signed Offer of Admission within the dates specified in the Offer. All fees are due and payable in full, or arrangements made with Accounting Services, on or before the dates defined in the academic calendar.

Students who have not paid their fees or made arrangements with Accounting Services for payment of fees in full, by the scheduled dates will have their registrations cancelled from programs and all courses in which they are currently registered.

Students with outstanding indebtedness to Lethbridge College are placed on Financial Hold and all transcripts, marks statements, parchments, and Student I.D. cards are withheld. In addition to collection procedures, this will restrict access to the College in the future. The Accounting Services Department should be contacted immediately to resolve any outstanding obligations. Issuance of "NSF" cheques will result in the student not being able to pay with a cheque in the future.

Subsequent to initial registration in various courses, the College does permit a restricted time period for the student to adjust their course load by making such changes through the Registrar's Office not later than the end of Add/Drop Period. Changes made will, in all probability, result in an adjustment to the financial fee obligation. Responsibility for the changes in fee amounts will be handled as follows:

- Tuition fee deposits may be transferred from one program/course to another or from one term to another at the written request of the applicant, subject to entrance requirements being met and availability of space at the time of reactivation. Such transfers are restricted to programs designated as "credit" and scheduled for delivery within the same academic year.

- All financial obligations must be settled before a parchment, scholarship, medal, prize or grades can be awarded or issued. Students unable to meet fee obligations while awaiting a loan or grant assistance must make arrangements with Accounting Services prior to the fee due date and before attending any classes. Sponsored students must check with their sponsoring agency to ensure which fees or portion of fees would not be covered. It is the student's responsibility to ensure payment, by the posted dates, of any fees not covered by the sponsoring agency.

Note: Additional fees must be paid at the time the course changes are made. Resulting credit balances may be retained on account or a request may be submitted for subsequent refund to the student and/or the sponsor.

REFUNDS, INDIVIDUAL COURSE DROPS & PROGRAM WITHDRAWAL TIMELINE INFORMATION
Please check online for updated information regarding timeline periods for individual course drops, program withdrawal and refund of fees.

POLICIES
Policies are a guide to organizational operation and behavior. Members of the Lethbridge College community are governed by policies that are consistent with College values. It is the responsibility of students to be aware of, and comply with, all relevant policies. Full policy information is available on our website: http://www.lethbridgecollege.ca/ about-us/policies-procedures.
The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant polices such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at policy@lethbridgecollege.ca.

Services for Learners

Find out more about:

- Learner Support Services
- Facilities
- Fitness, Wellness & Recreation
- Students Serving Students

and other services we offer to help you succeed.

Services for Learners

ACADEMIC ADVISING • 403.320.3200
When should I come see an advisor?
- Failing a class and want to know your options and how it will impact your future studies.
- Feeling overwhelmed by your coursework and want to talk about your options.
- Thinking about taking a break from your studies and want to know how that will impact you when you return at a later date.
- To create an academic plan to spread your program out over a longer period.
- You have a concern and need help understanding college policies.
- You need help but you aren't sure where to go. We may not always be the people to help, but we always know who to send you to.
- You want to learn more about doing an international exchange.
- Want to do an additional Lethbridge College program and need to see how your previous coursework will fit.

ACCESSIBILITY SERVICES
403.382.3202 EXT. 5400
Accessibility Services provides flexible, innovative, and collaborative support for diverse learners while advancing a culture of universal teaching and learning. Students with temporary or permanent disabilities (including chronic medical or mental health concerns) can register with Accessibility Services to receive accommodations to reduce the impact of their disabilities. They offer access to a wide variety of exam and classroom support, depending on the disability-related need of the student. In addition, they provide technology and strategy support, advocacy training, and assistance with grant funding applications. For more information, call or drop by Accessibility Services (CE1340 in the Learning Café, at the back of the library) or email access@lethbridgecollege.ca.

ALUMNI RELATIONS • 403.329.7220
After a successful program completion, the Alumni Relations Office encourages graduates to stay connected to Lethbridge College. Whether you are sharing your story or volunteering your time on campus or simply up to something great in your career and community, we want to know!

Support to current Lethbridge College students: There are several exciting initiatives and benefits through the Alumni Relations Office for both alumni and current students, including the following scholarships and internships:
- Lethbridge College Alumni for Life! Scholarship
- Lethbridge College Alumni Relations Entrance Scholarships
- Lethbridge College Alumni Relations Mature Entrance Scholarships
- Lethbridge College Alumni Relations Post Diploma Scholarship
- Lethbridge College Alumni TD Insurance Meloche Monnex Scholarship
- Troy Reed 2003 Distinguished Alumni Internship

Alumni Relations also activates Lethbridge College's "Pay it Forward" initiative; a monthly 50/50 style draw that supports student awards.

Additionally, the college's award winning magazine, Wider Horizons, is available to all students, alumni and community members.

Convocation: Each spring, the Alumni Relations Office is proud to welcome graduates to a group of almost 40,000 Lethbridge College alumni worldwide. Watch for Alumni Relations at your convocation to receive a small gift that celebrates your success at Lethbridge College.

Benefits of becoming a Lethbridge College Alum:
There are many benefits of being a Lethbridge College alum, including:
- Camps and continuing education classes for adults and youth
- Continued access to the Buchanan Library
- Discounts on home and auto insurance plans through TD Insurance Meloche Monnex
- Discounts at the Lethbridge College PE Building
- Free student employment and professional development
- 15% off your entire purchase at the Lethbridge College Bookstore

The Alumni Relations Office also hosts Honouring Excellence. This annual alumni award ceremony looks to recognize the leaders, thinkers and doers who got their starts at Lethbridge College. Honouring Excellence celebrates the distinguished alumni award recipients and Lethbridge College's honorary degree recipient for that year. Stay connected and get involved.

BE FIT FOR LIFE • 403.382.6919
The on-campus fitness resource centre provides fitness services, programs, information and activities designed to encourage and support a healthy lifestyle. Contact a Be Fit for Life representative for more information and services offered to our students and the community.

BOOKSTORE • 403.320.3308
Regular hours and extended hours will be outlined at the beginning of each term.

The Bookstore provides you with the textbooks you need to successfully complete your courses. They have stationery supplies, educationally priced software, canteen items and Lethbridge College souvenirs. The Bookstore accepts cash, cheques, Interac, VISA and MasterCard.

Personalized Cheque: Payable to Lethbridge College for the exact amount of the purchase and with Student ID (we will accept your parent's endorsed cheque with your ID).

Credit Card: Credit card purchases must be signed for or pre-authorized by the credit card holder. Contact the Bookstore for more information.

CAMPUS RECREATION • 403.320.3202 EXT. 5303
Our main objective is to provide a wide variety of quality programs to Lethbridge College students. Campus Recreation programs offer students the opportunity to be active, have fun and meet new people. To become involved with Campus Recreation activities, stop by the office during office hours. We encourage you to take pride in your college experience, to be active and get involved.

CAREER ADVISING • 403.320.3200
Career advising sessions are available to current and prospective Lethbridge College students. These two-part sessions assist you in identifying your career goals and developing effective strategies for achieving career satisfaction and success. During the first session, you complete an online interest inventory, which typically takes 40-60 minutes.

Services for Learners

In your second session, you meet with an advisor to go over your assessment and results and to look at your options. Your second appointment typically takes an hour.

CHAPLAINCY SERVICES • 403.382.0294
Chaplaincy services provide spiritual support to Lethbridge College learners through the joint cooperation of a number of area churches. In addition to spiritual counselling, the Chaplain also organizes and co-ordinates a home-cooked meal at the end of both the fall and winter terms. Services may be accessed by making an appointment by telephone at 403.382.0294.

COMPUTER LABS
Library Commons (Buchanan Library) Information Commons (Instructional Building) Please check our website for specific hours. Library staff are available for help in the library commons to assist new students set up computer accounts and understand software and procedures during the posted hours.

DAY CARE CENTRE • 403.320.3430
The Hands on Early Learning Centre is operated primarily as a student service, although College staff may also use the Day Care if space is available. The Day Care is licensed for 42 children, aged 19 months to school-age and is in operation all year long. Full and part-time care is available. Students should apply early as there often is a wait list. Fee rates are available upon request and subsidies are available to qualified parents. If you would like more information about the Day Care, please contact the Director to set up an appointment to visit. You may also apply by using our fax/mail back application form available in PDF format on the Lethbridge College website.

DIGITAL LEARNING SUPPORT 403.320.3352
The Digital Learning Team at Lethbridge College offers supports for students with all things educational technology related. Our main support requests revolve around Canvas, the college's learning management system. We can assist students in submitting an assignment, posting a discussion, gaining access to course material, or anything else related to Canvas. We also help with Office 365 (Word, Excel, PowerPoint), Turnitin, Respondus Lockdown Browser, and much more.

We primarily assist online and on-campus students and faculty through:

- first response, meaning come see us with your digital learning requests and you'll leave with a solution.
- student workshops on technologies commonly used for learning and course assignments in partnership with the Learning Café.

We also offer student support with new, innovative technologies. We provide demonstrations of emerging technologies for students to experience. This includes virtual reality, augmented reality, the latest in mobile devices, and 3D printing.

Visit us in the Buchanan Library or contact us at digital.learning@lethbridgecollege.ca

FOOD SERVICES
Food Services offer a wide variety of fresh menu items, from fresh-made sandwiches and soups, to pizza, burgers and heart-smart cuisine. Just about everywhere on campus you will find modern vending machines that dispense snacks, candy, sandwiches, hot and cold beverages, chips, etc. For more information (hours, menus, etc.), please check our website.

GARDEN COURT RESTAURANT 403.320.3230
Students, staff and community members from across southern Alberta can enjoy the latest culinary delights at the Garden Court Restaurant. The restaurant is run by the students from the Culinary Careers diploma program. The menus range from lunch express, buffets, gala dinners and evening dining at various times during the year. Reservations are recommended. Please call 403.320.3230 and leave a message to make your reservation.

This full-service outlet generally follows the academic calendar and is open when regular classes are in session (September to April).

HEALTH & SHEPELL COUNSELLING SERVICES (CE1380) • 403.320.3289
Where your health and well-being are our priority. We provide services to the Lethbridge College community through a team of registered nurses, doctors, psychiatrists and counsellor.

Our services are available to all students and employees, as well as their families.

Contact Us: Room: CE1380
Hours: Monday – Friday 8 a.m. – 4 p.m.
Note: Closed weekends and holidays as well as during July and August.
Phone: 403-320-3289
Email: healthservices@lethbridgecollege.ca Fax: 403-320-6173

Health Services
Our team is here to provide services that positively influence your health and well-being. We can also connect you to the most appropriate support services. Our services include: Doctor Clinics to address both physical and mental health issues ranging from acute illness, prescription renewals, injuries, specialist referrals, sexual health, to immunizations, third party medicals and first aid. Registered Nurses are available to answer your health concerns and questions. Our psychiatrists provide services to students to address mental health concerns, including ADHD, anxiety and depression. We provide required immunizations for all Health and Wellness program students.

Shepell Counselling Services
Feeling down, stressed or anxious? Maybe you just need to talk to someone. All Lethbridge College students have access to free counselling and a variety of services provided by Shepell through the Student Support Program (SSP). This service can help you meet the challenges of achieving your personal, professional and academic potential. The primary form of support is personal counselling, which provides an opportunity to work collaboratively with a professional counsellor to solve personal issues. The program provides students with a wide range of modalities to access counselling services including face-to-face counselling on campus.

Shepell's Student Support Program (SSP) offers immediate, confidential assistance 24 hours a day, seven days a week, 365 days a year both online and over the phone (1-855-649-8641). A Shepell counsellor is also located on campus in Health and Shepell Counselling Services (CE1380), Monday to Friday from 8 a.m. to 4 p.m. As well, the MySSP app can be downloaded for quick and convenient access to counselling services as well as general health and wellness information.

Services for Learners

KODIAKS ATHLETICS • 403.382.6900
Student athletes must be enrolled as full-time students to be eligible to participate in the varsity athletics program. Student athletes can participate for a maximum of five years in the Alberta Colleges Athletic Conference (ACAC).

Men's: basketball, cross country, indoor track, soccer, volleyball.
Women's: basketball, cross country, indoor track, soccer, volleyball.

Student athletes are expected to live up to the 3 foundations of Kodiaks Athletics – Academic Accountability, Athletic Excellence & Student Athlete Experience.

In order to remain eligible, student athletes must earn a GPA that exceeds 1.5 in each semester.

Athletics Scholarship: Alberta residents or Canadian citizens who reside in Alberta for 12 consecutive months may be eligible for a Jimmie Condon Scholarship of $1,800 per year. Students must maintain a 2.0 GPA and meet other team/ACAC requirements to be eligible.

All Kodiak home games are free for students with a valid Student ID card. GO KODIAKS!

LEARNING CAFÉ • 403.382.6952
The Learning Café works with students to develop the skills, strategies, and behaviours needed to succeed in their coursework and professional lives. Our qualified team of Academic Strategists and Peer Tutors provide the following supports:

1. Academic support in writing and research, APA documentation, math, sciences, computer and online learning skills;
2. Peer tutoring in courses with specialized content;
3. Academic strategies development, such as time management, effective study practices, test taking, learning technologies, and academic reading skills;
4. Facilitated study and project groups;
5. Workshops and individual appointments in group work strategies and preparing and delivering effective presentations;
6. Online learning support in writing through the Learning Café's Writing Dropbox;
7. Online learning resources through the eLearning Café (lethbridgecollege.net/elearningcafe);
8. Informal learning spaces for group and individualized study.

For more information, call or drop by the Learning Café (CE1340, southwest section of the library), or email learningcafe@lethbridgecollege.ca.

LIBRARY • 403.320.3352
As the hub of learning at Lethbridge College, the library is the place to find scholarly resources, work on individual or group projects, access a wealth of information in various formats and find helpful advice to assist you with your learning needs. A highlight of the services and resources we offer:

- Access to laptops, powerbanks etc for a short term loan
- Current DVD, print and journal collections
- Computers in our Learning Commons with word processing, spreadsheet, database applications and Internet access
- Research assistance
- Student Identification Cards issued and updated
- Student technology support to MyHorizon portal, Canvas, Office 365, Printing and Wirless
- Study space available, including group study rooms, individual study carrels, quiet study space
- The Alberta Library Card (TAL) allows you to borrow from more than 300 libraries in Alberta
- 24/7 access to electronic databases and electronic books with quality online information sources

MyHorizon Portal • 403.320.3352 (Library) lethbridgecollege.ca
The MyHorizon Portal is your web interface to Lethbridge College.

The MyHorizon Portal provides you with a College e-mail account and access to a variety of services designed to enhance your learning experience.

- Access e-mail links to other learners, instructors and services.
- Pay for your courses, program and other fees online with a credit card.
- View College information at your leisure.
- View real-time updated course and program information.
- View your marks any time.

If you need help accessing the Portal or have any questions, see the staff in the Library. For hours and questions call 403.320.3352.

LOCKERS
Locker users are required to pay a $10 rental fee for the locker as well as a $10 deposit for the issued lock. Staff and faculty will have lockers at a reduced rate, inquire for details.

Locker registrations are valid until May 30th of the academic year; users will return their lock to the Lethbridge College Students' Association office by this date, and the LCSA will refund their $10 lock deposit.

Only LCSA issued locks are allowed on campus lockers.

Important Dates:
July 1 - Lockers are available for rent.
May 31 - Deadline to return lock and receive your lock deposit back.
June 1-30 - Lockers are unavailable for rent.
June 30 - Final day to pick up unclaimed contents.

For more information, contact the LCSA locker coordinator at 403.320.3202, Ext. 5303, by e-mail at lcsa@lethbridgecollege.ca, or come by the Students' Association Office (CE1350).

LOST AND FOUND
Lost and Found is operated by the Security Services Department. Items turned in can be claimed at the Security Services Office in CE1303, in the Centre Core. Photo identification is required to claim items. Items are kept for 60 days from the date they are turned in.

MEDIA
The Endeavour: The student newspaper is published 18 times during the academic year and is also available online at http://endeavouronline.ca. The newspaper reports campus news while providing training for students in the Digital Communications and Media program. The Endeavour is located in TE3225.

CRLC: CRLC Radio streams on the Internet at http://thekodiak.ca and broadcasts on a closed circuit on campus. Operated by Digital Communications and Media students, the station plays a mix of contemporary music formats, along with news and feature programming.

The station operates continuously during the fall and winter semesters. Students are given hands-on training, covering all aspects of the radio station's operation. CRLC is located In TE3245.

ONLINE LEARNING • 403.320.3200
For general information, refer to the Online Learning section of this calendar or contact the Registrar's Office at 403.320.3200.

PARKING
Reserved lot parking is available to students. Parking permits are sold at the Bookstore and are also available online at www.lethbridgecollegebookstore.ca. Rates are available for daily, monthly, term and annual passes. All parking on campus is subject to City of Lethbridge bylaws and Lethbridge College policies. Violations may result in tickets or Lethbridge College Parking Services invoices being issued or towing.

PRINTING
As a student, you can print to a number of different campus printers from lab computers, your laptop and even your phone. Visit https://lethbridgecollege.ca/departments/information-technology-services/printing-services for more information.

PUBLIC TRANSPORTATION
L.A. Transit is the provider of public transportation for the City of Lethbridge. Lethbridge College serves as a 'mini-terminal' for L.A. Transit with several routes arriving and departing simultaneously. Weekend and evening service is also provided.

Transit route and schedule information is provided in the Transit Ride Guide, which is available at the Students' Association office. Bus tickets and monthly passes are also available at the Students' Association office. Further information is available by calling L.A. Transit at 403.320.3885 or online at www.lethbridge.ca/transit.

RECREATION SERVICES • 403.382.6903
The Physical Education Complex includes the Val Matteotti Gymnasium (three full-size gymnasiums) with seating for approximately 1,100; four international-size squash and racquetball courts; a fitness testing centre; a fitness centre complete with machines, free weights, cardio training equipment, portable equipment, and personal trainers; tennis courts; and a multi-purpose dance room.

A steam room is also located in each locker-room area. Recreation Services manages the lockers in the Physical Education building.

RECRUITMENT • 403.320.3322
The Recruitment Team at Lethbridge College consists of post-secondary recruitment specialists who spend much of their time bringing the College to you! Our team travels all over Canada to meet with and advise future and current students.

Our Recruitment Team will visit your high school, community event, career fair and/or employment agency to provide you with the necessary information to help you to transition to Lethbridge College.

Our Recruitment Team invites you to visit us on-campus to explore the many possibilities that are available to you at Lethbridge College. If you would like more information about Lethbridge College, or if you would like to book an information session, campus tour, group tour or become a Student for a Day please contact us at info@lethbridgecollege.ca or phone us at 403.320.3322. Also keep a lookout for our Open Houses which take place November and February of every year.

Student for a Day is available October-November and February-March. Campus tours are offered year round, Monday-Friday, 11 a.m. and 2 p.m. Please call ahead to arrange your individualized tour. Still can't make it to campus? Check out our virtual tour. It allows you to see into our state-of-the-art hands-on learning environments. You can access the tour from the Lethbridge College main page by clicking the green "campus and virtual tours" button.

RESIDENCE • 403.329.7218
All our units have been specifically designed to meet the needs of our learners. Four bedroom townhouses, two bedroom suites, barrier free units for wheel chair accessibility, and single suites are available. Basic utilities are included in the residence fees and paid parking is available. Each bedroom is equipped with high-speed Internet, Wi-Fi modem. Please see our website for further information at lethbridgecollege.ca/student-experience/housing.

SECURITY SERVICES • 403.320.3206
Security Services is responsible for campus security awareness, after hour facilities access, lost and found, responding to emergency calls, alarm monitoring and providing security-related assistance to staff, students and the general public. Parking issues are to be directed to Facilities Management. The Lethbridge Regional Police can be reached at 403.328.4444 for non-emergency calls and via 911 (on-campus dial 9-911) for emergencies.

STUDENT AWARDS & FINANCIAL AID
403.320.3372
Government Student Loans and Grants
Student Awards & Financial Aid assists students interested in or dealing with issues concerning student loan funding, grant funding or awards.

Students enrolled in full-time credit or apprenticeship programs are eligible for federal and provincial student loans and grants. Students enrolled in part-time studies can apply for federal student loans and grants. Students enrolled in academic upgrading or English as a Second Language (ESL), this funding is restricted to Canadian citizens can apply for Alberta Works grant funding.

Students must apply for funding through the province in which they spent their most recent twelve consecutive months as a non-full-time post-secondary student.

All provinces have online student aid resources. Look for your province by searching it by name and adding `student loans' to the search. You will find instructions and, in most provinces, an online application form.

Scholarships and Awards
The Lethbridge College Awards program offers more than three hundred awards to Lethbridge College students. For up-to-date information, check out LethbridgeCollege.ca/Awards. Students enrolling at Lethbridge College for the first time or enrolling in a new program are considered for `entrance' awards opportunities. Students continuing within their previous program are classified as `continuing' and those successfully completing programs are considered under the `graduating' category.

Services for Learners

Lethbridge College awards are open for application March 1 to May 1 for continuing/graduating students and from March 1 to July 1 for new/entrance students. The electronic application is simple and takes only minutes to complete. Successful entrance and continuing award recipients receive a letter in the mail in June or July along with an award document redeemable upon registration for the value of the award(s). Recipients of graduating and apprentice awards will receive a cheque by mail.

There are thousands of awards opportunities beyond those offered by individual educational institutions. External award options are listed on our website under `External Awards' and can also be found through searches of Yconic and Scholarships Canada.

STUDENT EMPLOYMENT & PROFESSIONAL DEVELOPMENT 403.320.3200
Following the life cycle of the student from college to career by organizing and providing intentional and integrated career services, strategies and events that enhance the career and professional development of the student.

Employment support includes:
- Job search strategies
- Interview preparation
- Resume and cover letter guidance
- Student job board

Professional development includes:
- Career competency development
- Career planning/development
- Career networking events

STUDENT EXPERIENCE • 403.320.3202 EXT. 5256
The role of Student Experience is to raise awareness of services available to you to support your successful transition to and through college life, starting with New Student Orientation . We also organize and manage the programs that orient new students to the college community and available supports, including:
- Family Orientation
- Institutional and academic orientation and activities
- Orientation to the Community and Services for Students Fair
- Pre-orientation workshops

As part of our work, we collaborate with faculty and staff to ensure both new and returning students receive a warm welcome from the entire Lethbridge College community. Student Experience also works with other departments to plan and promote activities that can be found on the Student Activities Calendar, including:
- Annual Holiday Tree Trimming and pancake breakfast
- Doggy de-stress
- Student outreach campaigns
- and many more student engagement activities throughout the year

Email studentexperience@lethbridgecollege.ca for more information or to find out how you can get involved.

STUDENT FOR A DAY • 403.320.3322
Curious about what it's like to be a Lethbridge College student? Our Student for a Day program is a great way to help you decide whether or not both our school and programs are right for you! If you are in Grade 11 or higher, we'll pair you up with a current student in your program of choice and have you attend classes for the day. We'll even buy you lunch.

If you are a current Lethbridge College student who is interested in hosting a Student for a Day, not only will you have positive influence on someone's life, but you'll get a free lunch and a reference letter for volunteering.

Student for a Day may require up to two weeks' notice to schedule your visit. For more information or to register, contact the Recruitment Office by phone at 403.320.3322 or by email at info@lethbridgecollege.ca.

STUDENT ID CARD
You can get your Student ID card by visiting the front circulation desk in the Buchanan Library in CE1340. Your Student ID card is used for:
- Access to campus recreation and physical activity services
- Access to classrooms/computer labs
- Access to Student Association activities
- Borrowing library materials
- Discounts with local merchants
- Photo identification at on- and off-campus locations
- Special rates for the L.A. Transit system

Student ID cards must be updated every term.

STUDENTS' ASSOCIATION 403.380.3373
The Lethbridge College Students' Association (LCSA) is an autonomous body made up of all students who pay SA fees. A Students' Council is elected by the members of the SA to represent the students' concerns. The Students' Council consists of six student representatives and three executive officers. The executive officers include President, Vice-President Operations & Finance, and Vice-President Student Life. One student is also appointed to the Board of Governors of Lethbridge College. Elections for executive officers are held in March of each year and the elections for representatives are held in September.

The LCSA provides many services, some of which include: photocopying (black & white, colour, transparencies), faxing, stamp sales, day planners, food bank, health and dental plans, student clubs, Lethbridge Transit passes, locker rental, and Campus Recreation. It is also involved in some political activities that affect all students.

STUDENTS' HEALTH AND DENTAL PLAN • 403.320.3202 EXT. 5310
Health and Dental Plans through the Students' Association are MANDATORY for full-time students who meet the eligibility criteria, and eligible students are automatically enrolled in the program. Students with comparable coverage through parents, work, or spouse (not provincial coverage) may opt out by the deadline (which coincides with the `Extended Drop Ends' date) by going online to www.mystudentplan.ca/lethbridge and completing the waiver/opt out form. Proof of alternate coverage is required when completing the request.

Please note: Students who have opted out of the Health and Dental Plan previously and need to get back onto the Benefits Plan must meet the eligibility criteria and prior to the Extended Drop Date deadline, must contact the Health and Dental Benefit Plan office or go online to the site www.mystudentplan.ca/lethbridge and complete the "Individual Enrolment Form" to be reinstated.

Students on the plan may purchase coverage for a spouse and/or dependents. The family add-on form and payment of the additional fees is available online on the above website or through the Student Benefits Plan Office prior to any applicable deadlines. Family add-on coverage is not automatically renewed and must be purchased each benefit year prior to any applicable deadlines.

For more information regarding deadlines, plan details, and to complete the online re-enrollment/family add-on or opt out/waiver form, please refer to the website. Information on the above is also available from the Student Benefits Plan office (CE1350), by e-mail to lethbridgeplan@mystudentplan.ca, or by calling the above number.

TESTING SERVICES • 403.320.3368
Testing Services (TE1233) supports all learners in reaching their educational goals by providing exam supervision and test administration according to specific needs. Online students, as well as on-campus students who miss an in-class exam due to illness or emergency, can make arrangements to write their exams in Testing Services, and so can new applicants who need to write ACCUPLACER for course or program placement. Some on-campus courses include full-class testing with Testing Services, and students with approved exam accommodations can write their exams with Testing Services as well. Students from other educational institutions and individuals/groups from the community can write exams at Testing Services for distance studies, program placement, and professional accreditation or certification. Lethbridge College's regional campuses also offer student exam supervision.
To make an exam appointment on the main campus, book it online at www.lethbridgecollege.ca/testing at least one business day in advance. If you are writing at one of our regional campuses, more notice is necessary. Contact your regional campus for more information. Photo ID is required for all exam sittings.

POLICIES
Policies are a guide to organizational operation and behavior. Members of the Lethbridge College community are governed by policies that are consistent with College values. It is the responsibility of students to be aware of, and comply with, all relevant policies. Full policy information is available on our website: http://www.lethbridgecollege.ca/about-us/policies-procedures.
The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant polices such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at policy@lethbridgecollege.ca.

Services for Indigenous Learners

Indigenous Services provides a “Circle of Services” to assist our Indigenous learners be successful in their journey of pursuing a post-secondary education. Beyond our warm welcome, we provide:

Recruiter, Indigenous Focus
Lethbridge College Recruitment Office provides tours and school visits to interested prospective and current students. Our Recruiter with Indigenous Focus visits high schools, attends community events, career fairs and/or employment agencies to help support and encourage Indigenous learners to be successful in attaining a post-secondary education. Lethbridge College Indigenous Services and Program presentations are available upon request.

For further information, contact the Recruitment Office at 1.800.572.0103, ext. 3322 or 403.320.3322 or indigenous@lethbridgecollege.ca.

Coordinator, Indigenous Services
Located in the Niitsitapi Gathering Place (AN1501), the Coordinator of Indigenous Services provides support and assistance to Indigenous learners, works closely with college faculty and staff, and facilitates open and respectful communication between Indigenous learners and college departments and divisions so that Indigenous learners’ needs are best served.

The Coordinator of Indigenous Services is responsible for providing Indigenous students with referrals to student support services both on and off-campus, as well as enhancing the student experience through cultural support, events and activities.

For further information, contact Indigenous Services at 1.800.572.0103 or 403.320.3202, ext. 5731 or indigenous@lethbridgecollege.ca.

Career and Academic Advisor, Indigenous Focus
The Career and Academic Advisor with Indigenous Focus provides academic advising geared towards Indigenous learners. Through facilitated information sessions, the Career and Academic Advisor with Indigenous Focus assists prospective students explore programs, admission requirements, services and Indigenous support offered by Lethbridge College. The Career and Academic Advisor with Indigenous Focus also provides one-on-one academic advising appointments to help current learners with accessing services and support, course registration, funding and university transfer opportunities.

For further information, contact Academic Advising at 1.800.572.0103 or 403.320.3202, ext. 5359 or indigenous@lethbridgecollege.ca.

Indigenous Cultural Support Program
The Indigenous Cultural Support program provides students with access to Kaahsinnooniks (Grandparents) and community Elders, leaders and role models. Kaahsinnooniks and Elders make regularly scheduled visits to the campus and are available to meet individually with students. Through this program, students have an opportunity to interact with Kaahsinnooniks and Elders and benefit from their support, traditional knowledge and guidance.

Niitsitapi Gathering Place • Andrews Building (AN1501)
The Niitsitapi Gathering Place is the home of the Coordinator of Indigenous Services and our Indigenous Cultural Support Program. The Niitsitapi Gathering Place serves as an information and connection point for Indigenous learners, staff, Kaahsinnooniks and Elders. All are welcome in the Gathering Place to meet old and new friends, use the computers, study, and participate in various student activities throughout the year.

For further information on Services for Indigenous learners, contact: Indigenous Services at 1.800.572.0103 or 403.320.3202, ext. 5731, the Manager of Recruitment and Indigenous Services at 403.320.3242 or e-mail indigenous@lethbridgecollege.ca.

Services for International Learners

International Services • Phone: 403.320.3202 Ext. 5532 • Email: international@lethbridgecollege.ca

Welcome to Lethbridge College. We are pleased that you have chosen Lethbridge College to pursue your academic goals. International students from over 55 countries have chosen Lethbridge College because of the affordable, safe, and high-quality learning environment in which to live, study and learn. To support Canadian students, Lethbridge College also encourages student exchanges and international learning opportunities through study abroad. Whatever your aspirations, Lethbridge College has the faculty, staff, and facilities to help you achieve your goals.

INTERNATIONAL STUDENTS
We realize that moving to a new country and attending a new college will involve many adjustments. Lethbridge College offers many supports for students to help them with this transition to college life. We have services for students related to academic, social, mental, and emotional needs.

Immigration:
We can provide you with general information regarding study permits, visas, work permits, and study permit extensions. We hold annual information sessions on post-graduate work permits and immigration pathways. For detailed information, please visit Immigration, Refugees and Citizenship Canada at www.canada.ca

Academic advising:
Advisors are available for international students who have questions related to their educational experience. Our advisors can work with you to help you make informed decisions about your education. Our Academic Advising office is located across from the bookstore, in PA1130.

Other information:
Information on acquiring a Social Insurance Number, health care information, and non-academic information can be found on our International Student page on the Lethbridge College website: www.lethbridgecollege.ca/international

We also organize an International Student Orientation and Welcome at the beginning of the fall, spring and winter terms. This is a great way to connect with other students and get to know more about what Lethbridge College has to offer new students! There are fun social activities planned throughout the year as well!

For information regarding Lethbridge College programs, application and admissions questions, please go to www.lethbridgecollege.ca/international

INTERNATIONAL LEARNING OPPORTUNITIES
International learning abroad is a valuable asset to a student's portfolio, and Lethbridge College offers a number of program specific international learning experiences to help you gain the intercultural competencies necessary for today's global economy. Opportunities for students to participate in exchange programs and to pursue further study abroad are available through the collaboration that Lethbridge College has with partner institutions in Finland, France, Ireland, Scotland, Japan, South Korea, Australia, Nicaragua and the United States.

For information regarding Lethbridge College outbound programs, please go to **www.lethbridgecollege.ca/international**

Living in Residence

lethbridgecollege.ca/residence

Lethbridge College Residence Life provides a warm, welcoming and convenient home away from home for 549 learners annually. Living in residence at Lethbridge College also provides students opportunities to engage in Residence Life programming throughout the year. Programming includes events and activities on campus and in the community which helps students make connections with other students, their community and to fully enjoy their experience while living on campus.

We have a variety of residence types, including single suites, four-bedroom townhouses, two-bedroom suites, and family units. Some of our two-bedroom and single suites are specially designed and equipped to reduce barriers for learners with wheel chairs or other physical impairments. Every residence has an assigned Resident Assistant who promotes community through various events. RAs on duty are on call after office hours and on weekends to assist residents with problems or emergencies. Also available are coin-operated laundry facilities in all three residence areas. If you have a vehicle, parking passes can be purchased at the bookstore.

Residence rooms are offered only to students who have been accepted into a program at Lethbridge College, based on the order the applications are completed.

Cullen Residence, Townhouse • Thirty-four townhouses provide many advantages for those students wanting affordable on-campus accommodation. Each townhouse is completely furnished, has three levels, four bedrooms, two bathrooms, a dining room, kitchen and living room and a basement for storage. Within the Cullen townhouse there are three single bedrooms (approximately 102 square feet) and one super single bedroom (approximately 140 square feet). Unlike the other single rooms in shared accommodations, the super single bedroom has a queen sized bed.

Cullen Residence, Two Bedroom Suites • Forty-four suites are furnished, have two bedrooms (approximately 102 square feet), a bathroom, a kitchen and living room.

Cullen Family Unit • Eight units (approximately 441 square feet) accommodate learners with families. Each unit is fully furnished, has two bedrooms, a bathroom, dining room, a kitchen and living room and a shared basement for storage.

30th Avenue Residence, Townhouse • The 30th Avenue Residences provide housing to 208 students in cottage-style units. Each furnished suite has four bedrooms (approximately 116 square feet): two upstairs bedrooms and a bathroom and two downstairs bedrooms and a bathroom. Common areas include a living room, kitchen, and a crawl space for storage.

Kodiak House • Lethbridge College's newest residence building features 94 single suites that match sustainable design with student comfort. Each suite has a private bathroom, and is furnished with a queen bed, desk, and wardrobe. A microwave and fridge are supplied within the kitchen.

An additional fifteen suites are wheelchair accessible and barrier free. These suites feature single beds, wider doorways, lowered shelving, open sinks, lower windows, and larger bathrooms with grab bars.

For more information on our services and accommodations, to view floor plans, to view current residence rates, and to apply, visit: lethbridgecollege.ca/residence or contact 403.329.7218 or 1.800.572.0103 (ext. 7218) res.life@lethbridgecollege.ca

Scholarships and Awards

You should be aware that there are many scholarship and award opportunities available to you through Lethbridge College, as well as other organizations, that may make a significant financial contribution to your endeavours.

Due to the generous support of numerous community, business and individual donors, Lethbridge College provides almost 500 awards in addition to provincial awards. Awards are available to entering, continuing and graduating students.

The awards application is open on the Lethbridge College website from March 1 to May 1 for continuing and graduating students and from March 1 to July 1 for new students (or those entering new programs) and is featured during this time on both the home page and the Awards page.

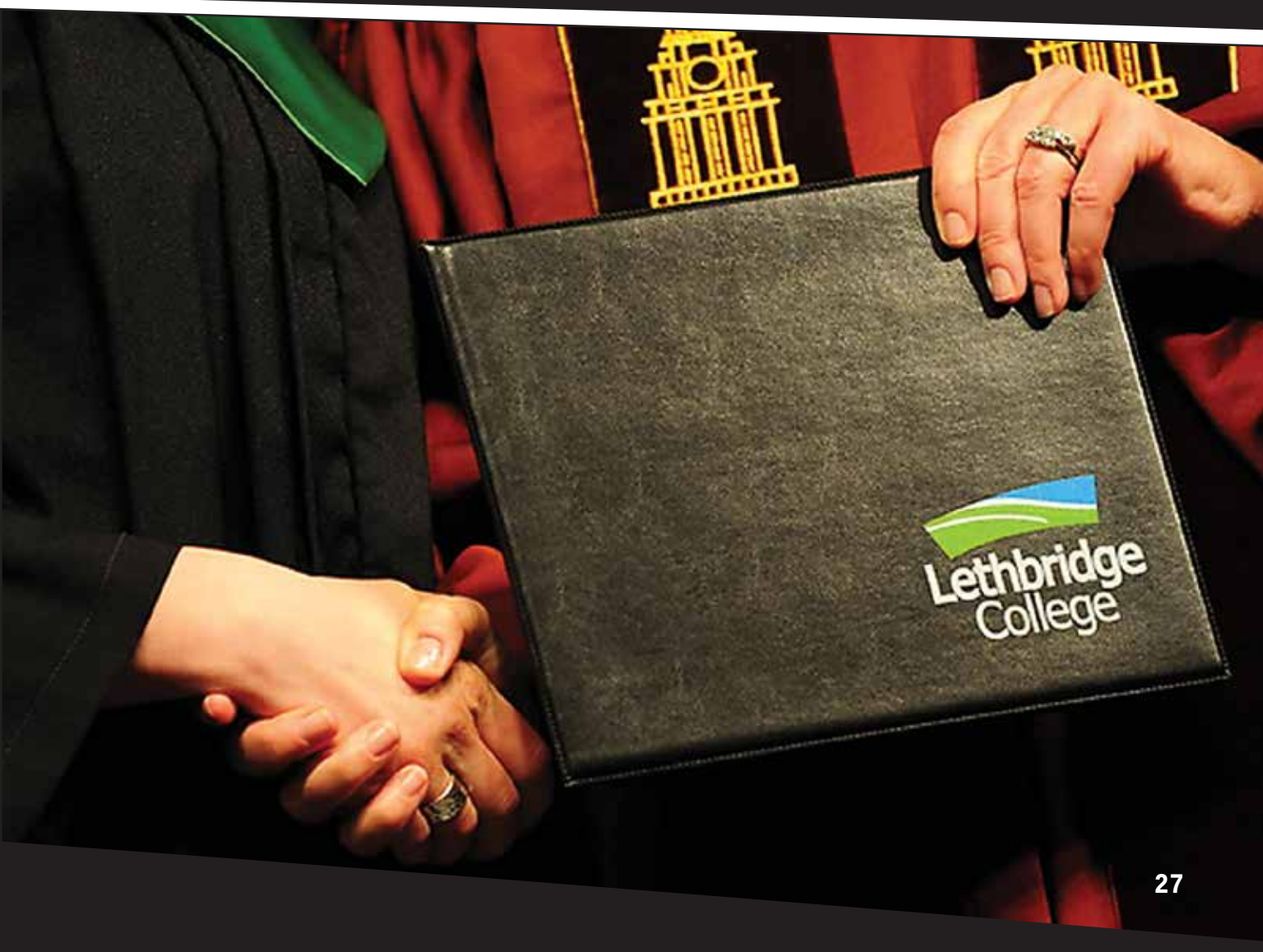
Though many continuing and graduate awards do not require an application, there are many that do; it's in your best interest to apply. You may also view our awards anytime by visiting the Lethbridge College website.

Awards are not limited to academic achievement. Many other qualities and circumstances are considered; community involvement, leadership, group membership, high school attended, financial need, and other factors may make you eligible for awards.

Call toll-free 1.800.572.0103 extension 3372, or 403.320.3372 or e-mail awards@lethbridgecollege.ca if you require further information.

There are so many 'external' awards that we cannot maintain a comprehensive list, but we do offer a number of links under 'External Awards' and we recommend a website that covers a number of options: www.yconic.com.

Lethbridge College reserves the right to add, delete or revise awards where required.



Mobile Learning

Lethbridge College is focused on enhancing students' learning experiences through technology so they have greater capacity for success as learners, future employees and members of the community. In programs requiring students to use personal mobile devices (i.e. laptop, tablet), the devices must meet or exceed the hardware requirements set by the programs. In some instances, the devices must be purchased from Lethbridge College.

Please see www.lethbridgecollege.ca/mobilelearning for specific technology requirements for your program.

The following programs require you to purchase a mobile learning device from Lethbridge College:

- Architectural Animation Technology
- Civil Engineering Technology
- Digital Communications and Media
- Engineering Design and Drafting Technology
- Geomatics Engineering Technology
- Interior Design Technology

The following programs require you to purchase your own device with minimum specifications:

- Administrative Office Professional
- Multimedia Production
- Wind Turbine Technician

If you are not required to use a mobile learning device for your program but are planning to purchase one to facilitate your learning, please see www.lethbridgecollege.ca/mobilelearning for recommended options.

Flexible Delivery

Tailor our programs to meet your needs through part-time learning and Online Learning options.

Online Learning

Some call it online learning, others distributed learning, and still others blended or hybrid learning; we call it a flexible, accessible and personalized way for our students to access our programs and courses.

At Lethbridge College, you'll find most of our programs have an online element. Some are offered exclusively online, others offer a mix of classroom and online learning (blended), while others are strictly classroom-based. Online learning is great for those who live outside of Lethbridge, but it's also convenient if you require flexibility in your daily schedule.

Through our flexible course offerings, you can:

- earn College credits without coming on campus;
- choose courses and timelines that suit your goals;
- complete a College program while working;
- take courses which complement on-campus courses.

APPLICATION PROCESS
Online Learning students apply to a College program following the admission procedures outlined in this calendar. You should apply early. Another option is to register as an Open Studies student which enables you to register in credit courses without applying to a designated program of study. Open Studies students may only enroll as part-time students. If a student requires full-time status, they must apply to a Lethbridge College program.

Consulting with the Program Chair or an Advisor is important to ensure the best course selection for your career goals. Please refer to the online Academic Timetable for specific and accurate semester offerings and delivery options.

DELIVERY METHODS
Online Learning courses at Lethbridge College are offered in one of two different formats. Visit the online Academic Timetable to find out if a course is blended or online.

Online - The entire course is delivered in an online format. This means that all the course content is available online. You are expected to communicate with the instructor and other students in the class via e-mail, class discussions, and group chats. You will also submit assignments electronically. Courses may use a variety of interactive, online activities and resources.

Blended - A course delivered in a blended format combines the face-to-face and online environments. The amount of time in each environment varies in each course.

COURSE REGISTRATION
Registrations for Online Learning are accepted at any time of the year; however, you will be assigned a specific term to complete the course (January to April or May to August or September to December). For specific term course offerings refer to the online Academic Timetable or contact the Program Chair. New students should contact their Program Chair for course advisement. If you have been admitted to a program, you will be able to register online using WebAdvisor.

COURSE MATERIALS
Course textbooks and materials, if applicable, are available through the Lethbridge College Bookstore. If you are registered in an online course, you will access your course materials online at www.lconline.ca.

INSTRUCTORS
An instructor is assigned for each course and will connect directly with you to facilitate the course, receive and grade assignments and to answer any questions.

EXAM PROCESS
Exams are taken online, on campus, or at an approved testing location if you live outside of the Lethbridge area. Exam procedures will vary among courses and not all courses have an exam component. You will need to make arrangements to write exams through the following methods:

Lethbridge and area – Go to www.lethbridgecollege.ca/testing to book an appointment at least one (1) business day prior to the date you wish to write. If you are writing an online exam, we will assist you with accessing the exam when you arrive.

Regional Campuses – We offer exam invigilation at our campuses in Claresholm, Pincher Creek and Vulcan. There is no cost for exams written by Lethbridge College students at the Regional Campuses. Complete the `Request for Online Examination Form' found within your online course, or on the Testing Services web page. Submit the form to regional.campuses@lethbridgecollege.ca or to the campus specific email listed on the Lethbridge College website.

Exams written at the Regional Campuses must be requested a minimum of five (5) business days prior to the date you wish to write your exam in order to be received and processed in time.

Outside of Lethbridge area - Complete the `Request for Online Examination Form' found within your online course, or on the Testing Services web page. Please follow the 'Guide for Off-Campus Exam Proctoring' when selecting a proctor. The completed exam request form can be sent to Testing Services by e-mail or fax.

Off-campus exams must be requested a minimum of five (5) business days prior to the date you wish to write your exam in order to be received and processed in time.

Any fees for service by the off-site test proctor are the student's responsibility.

Contact information for Testing Services:
Location: AN1602 (main campus)
Phone: 403.320.3368
Fax: 1.888.883.5839
Email: testing.services@lethbridgecollege.ca
www.lethbridgecollege.ca/testing

ONLINE LEARNING SUPPORTS
Students learning in an online environment have access to certain learning supports through the Learning Café. Academic support for skills such as writing and research, APA documentation, and study skills can be arranged by emailing learningcafe@lethbridgecollege.ca or by calling 403.382.6952. We offer online peer to peer counselling, subject to tutor availability. In addition, students have 24/7 access to a variety of online learning resources through the eLearning Café, www.learningcafe.ca and online writing feedback support through the Learning Café's Writing Dropbox.

Online Learning

NEW STUDENT ORIENTATION FOR ONLINE LEARNERS
All online students have access to our New Student Orientation for Online Learners. Designed to help you prepare for success, this resource helps familiarize students with Canvas, our learning management system, and provides information about online learning, the supports available to online students, and strategies for success when learning online.

DIGITAL PITSTOP
The Digital Pitstop is the hub for all the information you need to succeed as a student at Lethbridge College. This is where you can find tutorials, videos, and information designed to help you learn how to use Canvas, introduce you to online/blended learning, provide a one-stop-shop for technology information and tell you about some supports and services that are available to you as a Lethbridge College student.

FEES
To view fee information for your program, please go to lethbridgecollege.ca/programs and select your program.

For more information, call the Registrar's Office at 403.320.3323 or toll free at 1.800.572.0103 ext. 3323.

PROGRAMS OFFERED COMPLETELY THROUGH ONLINE LEARNING
These programs offer all required courses through online learning. There may be labs or practicums that involve face to face learning. Please refer to program pages to determine if there are face to face components.

- Correctional Studies
- Criminal Justice – Policing
- Early Childhood Education
- Educational Assistant
- Electrician Apprenticeship
- General Studies
- Justice Studies – Bachelor of Applied Arts
- Medical Device Reprocessing
- Therapeutic Recreation – Gerontology

PROGRAMS OFFERING COURSES THROUGH ONLINE LEARNING
These programs have some courses offered through online learning. Please refer to program pages to determine which specific courses are offered online. New courses are added each semester as they become available.

- Agricultural Enterprise Management
- Bachelor of Nursing
- Child and Youth Care
- Conservation Enforcement - Bachelor of Applied Science
- Correctional Studies (complete program available)
- Criminal Justice – Policing (complete program available)
- Early Childhood Education (complete program available)
- Educational Assistant (complete program available)
- Exercise Science
- General Studies Diploma
    - English Major
    - General Major
    - Psychology and Sociology Major
- Justice Studies - Bachelor of Applied Arts (complete program available)
- Medical Device Reprocessing (complete program available)
- Practical Nursing
- Therapeutic Recreation-Gerontology (complete program available)
- Unit Clerk Training

POLICIES
Policies are a guide to organizational operation and behavior. Members of the Lethbridge College community are governed by policies that are consistent with College values. It is the responsibility of students to be aware of, and comply with, all relevant policies. Full policy information is available on our website: http://www.lethbridgecollege.ca/about-us/policies-procedures.
The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant polices such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at policy@lethbridgecollege.ca.

Regional Campuses

Check out our campuses:

- Claresholm
- Pincher Creek
- Vulcan County

Lethbridge College Regional Campuses

As Lethbridge and region's only comprehensive community college, Lethbridge College is committed to and serves a geographical region that extends south from Nanton and Vulcan to the US border, east to include the communities of Taber, Vauxhall and Milk River, and west to the BC border.

As a regional steward, we partner with numerous community organizations across our region to offer a range of locally-delivered services. Regional campuses in Claresholm, Vulcan County, and Pincher Creek provide additional access to a variety of programming and learner support services.

Regional Campus Operations
Phone: 403-320-3220
Email: regional.stewardship@lethbridgecollege.ca

Learner Support Services
Adult learners can access the following learning support services to enhance their success at any of our three regional campuses:

- Information regarding academic upgrading and post-secondary education programs available through Lethbridge College and other educational institutions.
- Testing services, including exam supervision and test administration. Individuals, groups, and professional associations can arrange to write tests at our regional campuses for purposes such as admission/placement, accreditation, certification or qualification.
- Access to and assistance with completing Lethbridge College forms, such as admissions and funding applications.
- Referrals to various departments within Lethbridge College for counseling, advising, and access to specialized services.
- Access to our eLearning Café and other learning assistance resources.

REGIONAL CAMPUSES
Our Claresholm, Vulcan County, and Pincher Creek campuses offer support to students in their local community. The college works with community partners to establish programming and services that are provided directly to the community through multiple locations such as libraries, schools, and other local facilities. A variety of programs and courses are accessible through these collaborative campuses, whether through face-to-face instruction or via one of our flexible learning options such as online learning. We offer also exam invigilation, assistance with Lethbridge College paperwork, information about programming and other learner support services at these campuses.

Claresholm Campus
Phone: 403-625-4231
Email: claresholm@lethbridgecollege.ca
www.lethbridgecollege.ca/claresholm-campus

Pincher Creek Campus
Phone: 403-563-7041
Email: pinchercreek@lethbridgecollege.ca
www.lethbridgecollege.ca/pincher-creek-campus

Vulcan County Campus
Phone: 403-485-1488
Email: vulcancounty@lethbridgecollege.ca
www.lethbridgecollege.ca/vulcan-county-campus

Lethbridge College Programs

With more than 50 career-training programs, applied degrees and apprenticeships to choose from, you're sure to find one that matches your view of the future.

Academic Upgrading

Program Office: 403.394.7338 • upgrading@lethbridgecollege.ca

PROGRAM OVERVIEW
The Academic Upgrading program offers learning opportunities through to Grade 12 equivalency on a full-time or part-time basis, and is open to any person who successfully meets Grade 9 standards. Academic Upgrading is typically taken by three different student groups: those who want to complete high school equivalent courses, those who want to improve their final marks in high school courses, and those who did not take particular high school courses now required for entrance into their post-secondary program of choice.

CAREER OPPORTUNITIES
Academic Upgrading courses can lead to many opportunities. Our students have continued into certificate, diploma and degree programs. They have entered professional and apprenticeship programs and have moved on to successful careers. You'll also find that our courses offer a good foundation for beginning employment.

ADMISSIONS
New students are accepted into the Academic Upgrading program for courses beginning in the Fall (September) and Winter (January) terms and, in Lethbridge, for the Spring (May) term as well.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
The Academic Upgrading program is open to any person who has the desire and the academic skills to be successful at a selected course level. Admission is based on academic background, skills assessment and advisement.

YOUR INVESTMENT
Program fees will vary. To view fee information, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM
Students register in courses that fit their career goals on the recommendation of the Lethbridge College advising team. Transcripts and placement testing determine the course level placement.

Course offerings may be subject to change. All courses are available face-to-face given sufficient enrolment. Courses below the 0009 level are not available at the main campus.

BIO 0020	Biology 0020	6
BIO 0030	Biology 0030	6
CHM 0020	Chemistry 0020	6
CHM 0030	Chemistry 0030	6
ENG 0009	English Basics	6
ENG 0010	English 0010	6
ENG 0022	English 0022	6
ENG 0030	English 0030	6
ENG 0032	English 0032	6
MTH 0009	Mathematics 0009	6
MTH 0010	Mathematics 0010	6
MTH 0020	Mathematics 0020	6
MTH 0030	Mathematics 0030	6
MTH 0032	Mathematics 0032	6
MTH 0037	Introduction to Calculus	6
PHY 0020	Physics 0020	6
PHY 0030	Physics 0030	6
SCI 0010	Science 0010	6

High School Equivalencies
Academic Upgrading courses satisfy post-secondary program entrance requirements as substitutes for Grade 12 level courses. No provincial departmental exams are required. The course numbering designates grade levels:

Courses numbered 0010-0019 parallel Grade 10 level courses.
Courses numbered 0020-0029 parallel Grade 11 level courses.
Courses numbered 0030-0039 parallel Grade 12 level courses.

For further details, consult the Alberta Council on Admissions and Transfer (ACAT) guide or talk to an Academic Advisor.

COURSE DELIVERY OPTIONS
Our courses are offered in a variety of formats. The format in which a course is offered may change at short notice, depending on enrolments and student needs.

The current delivery formats are:

Online • You will complete the entire course using the online environment.

Face-to-face • You will attend class at a scheduled time and location. An instructor will be physically present to assist you.

Registration Changes
Course registrations or "add/drops" must be carried out in consultation with an Academic Advisor and sponsorship supervisor, if applicable. It is the student's responsibility to register for and maintain credit minimums as required for sponsorship and to ensure their registration is sufficient to meet their sponsoring agencies' requirements.

GRADUATION
Students in the Academic Upgrading program who accumulate at least 18 credits in academic courses are eligible to receive a Credential of Achievement. To qualify, students must take three courses numbered 0030 through 0039, including at least one English course, and achieve a minimum grade point average of 1.50.

TRANSFER
Courses numbered at any of the 0010, 0020, or 0030 levels in this program are accepted in lieu of high school courses for admission at Alberta's universities, colleges, and technical institutes, as well as at most colleges and universities in the United States. However, students do not receive high school credits towards a diploma from Alberta Education. Lethbridge College issues its own grades and its own credential.

Administrative Office Professional

Program Office: 403.320.3213 • office@lethbridgecollege.ca

PROGRAM OVERVIEW
Today's business workplaces rely on skilled individuals to ensure that administrative tasks are handled efficiently and effectively, using current business technology. The Administrative Office Professional program prepares students for professional careers in various offices.

Administrative professionals could be working for small businesses, large corporations, not-for-profit or government departments. They coordinate office services and procedures such as the supervision, maintenance and control of the flow of work and programs, personnel, budgeting and records. The career possibilities for an administrative professional are endless.

Administrative office professionals must have excellent computer, communication, problem-solving and decision-making skills. The Administrative Office Professional certificate program will help you develop these critical skills. Our hands-on courses will give you a practical understanding of topics ranging from accounting/bookkeeping, office procedures and word processing to records management, document processing and desktop publishing. You learn how to use industry-standard software including word processing and spreadsheets. Your classes will incorporate group work and simulate a real office environment. With close to 100 percent of our graduates finding employment, the choices are plentiful, the work is important and the opportunities are yours.

CAREER OPPORTUNITIES
Our graduates enjoy close to a 100 percent employment rate! You can look forward to work in a wide range of office environments and roles including:

- Administrative Assistant
- Bookkeeper
- Commercial Offices
- Data Entry Specialist
- Educational Offices
- Executive Secretary
- Financial Offices
- Government Offices
- Legal Offices
- Medical Offices
- Office Assistant
- Receptionist

ADMISSIONS
New students are accepted into the Administrative Office Professional program in the Fall (September) term. Students wishing to enroll for the Winter (January) term may take courses in a revised curriculum based on course availability. Students admitted in Winter will be able to complete the program within three (3) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to supply their own device with required minimum specifications. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
ACC 1146	Bookkeeping	3
BUS 1185	Business Computer Applications	1.5
ENG 1133	English Fundamentals	3
KEY 1140	Document Processing	3
KEY 1144	Keyboard Speed Development	1.5
ORG 1148	Office Dynamics	3
		15

Year 1 Term II		
AOP 1142	Office Procedures	3
AOP 1145	Meeting and Conference Planning	3
AOP 1148	Records Management	1.5
CPU 1165	Designing Spreadsheet Applications	3
CPU 2254	Basic Desktop Publishing	3
ENG 1168	Business Communication*	3
		16.5

*The combination of ENG 1156 and PRS 1155 is considered an acceptable alternative for ENG 1168.

GRADUATION
Upon successful completion of all program requirements, students are awarded an Administrative Office Professional certificate.

TRANSFERS
Medicine Hat College
Graduates of the Administrative Office Professional certificate are eligible for admission into Year 2 of Medicine Hat College's Administration Office Management diploma program.

School of Business

Business Administration | p. 54

lethbridgecollege.ca/programs

Agricultural and Heavy Equipment Technician

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

PROGRAM OVERVIEW
Do you enjoy working with machines and equipment? Our practical, one-year (32-week) Agricultural and Heavy Equipment Technician Certificate program will give you the foundation you need to build a successful career in agricultural and/or heavy-duty diesel equipment repair.

Upon successful completion of the Agricultural and Heavy Equipment Technician program, you can enter the Alberta Apprenticeship program with an advanced standing toward the completion of their apprenticeship training. Apprenticeship exams can be written for both the first and second years of Agricultural Equipment Technician and the first and second years of Heavy Equipment Technician upon successful completion of the program. You will receive 300 hours credit towards experience for each of the first and second years of Agricultural Equipment Technician or the first and second years of Heavy Equipment Technician.

Working in small classes, you'll develop your understanding of power trains, steering, suspension, brakes, diesel engines, fuel systems, electrical systems and mobile hydraulics, as well as farm and industrial equipment through theory and lots of hands-on experience. One week of the program will be completed at an Agricultural or Heavy Equipment repair facility where you'll work directly with journeyman technicians.

Our modern shop facilities have the latest in diagnostic technologies and tools. And, you'll test your skills working on a wide range of on and off-road vehicles and farm equipment. Move ahead in industry today by obtaining a Lethbridge College certificate in the Agricultural and Heavy Equipment Technician program.

CAREER OPPORTUNITIES
Your Agricultural and Heavy Equipment Technician Certificate will prepare you to begin a career in many diverse fields, including:
- Agricultural Equipment Service
- Construction Equipment Service
- Farming and Ranching Service
- Forestry Equipment Service
- Heavy Equipment Service
- Journeyman Agricultural Equipment Technician
- Journeyman Heavy Equipment Technician
- Manufacturing Equipment Service
- Mining Equipment Service
- Mobile Repair Service
- Oilfield Equipment Service
- Parts Technician
- Service Manager/Shop Foreman
- Trucking Equipment Service

ADMISSIONS
New students are accepted into the Agricultural and Heavy Equipment Technician program for the Fall (September) term with a late August program start date.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

Academic Requirements
Applicants to this program do not require a high school diploma; however, they must satisfy the following specific course requirements (or equivalencies):
- Grade 11 English
- Grade 11 math

The following courses or subjects are recommended for the best possible outcome in the Agricultural and Heavy Equipment Technician program:
- Physics, Chemistry and Science
- Grade 12 Math and English

YOUR INVESTMENT
Program fees will vary. To view the fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students will require a basic set of hand tools as listed on the program website. An electrical test meter (DVOM) will be required for the second term.

CURRICULUM

Year I Term I		Learning Credits
AHM 1124	Suspension and Brakes	6
AHM 1126	Safety and Hand Skills	3
AHM 1127	Power Trains	6
AHM 1129	Farm and Industrial Equipment	3
		18

Year I Term II		
AHM 1130	Electrical and Electronics	6
AHM 1131	Diesel Engines	6
AHM 1132	Diesel Fuel Systems	6
AHM 1135	Mobile Hydraulics	3
		21

GRADUATION
Upon successful completion of all program requirements, students are awarded a certificate in Agricultural & Heavy Equipment Technician.

Crooks School of Transportation

Agricultural Equipment Technician Apprenticeship	p. 42
Automotive Service Technician Apprenticeship	p. 42
Heavy Equipment Technician Apprenticeship	p. 44
Parts Technician Apprenticeship	p. 44
Automotive Systems	p. 48

lethbridgecollege.ca/programs

Agricultural Enterprise Management

Program Office: 403.382.6991 • agsciences@lethbridgecollege.ca

PROGRAM OVERVIEW
The Agricultural Enterprise Management diploma is a multi- and trans-disciplinary program that combines economics, management and science disciplines with a specific focus on the business of agriculture. The program focuses on management principles, knowledge and training required for students to take key leadership and innovation roles in the broadest spectrum of agricultural enterprises, from primary production through to the consumer. Graduates with the diploma in Agricultural Enterprise Management will be knowledgeable in policy and regulation, operations management, finance and accounting and marketing across the upstream (primary production) and downstream (value-added) facets of agriculture and food, inclusive of how they integrate and converge. Students can expect to acquire the skills and knowledge required to be successful through various instructional strategies such as lectures, labs, active learning and experiential learning opportunities, case studies, and projects.

CAREER OPPORTUNITIES
Our two-year diploma in Agricultural Enterprise Management will prepare you for a career in a wide range of fields including:

- Agricultural economics
- Agricultural operations management
- Agricultural optimization
- Agriculture-related policy and regulation
- Agriculture sales and marketing
- Agri-data analysis
- Commodity merchandising
- Food distribution and logistics
- Food production management
- Food processing
- Supply chain management

ADMISSIONS
New students are accepted into the Agricultural Enterprise Management program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
ACC 1170	Financial Accounting I (OL)	3
AEM 1150	Western Canada Livestock	3
BUS 1170	Introduction to Management (OL)	3
CPU 1165	Designing Spreadsheet Applications	3
ENG 1150	Composition (OL)	3
MKT 1188	Introduction to Marketing (OL)	3
		18

Year 1 Term II		
ACC 1175	Financial Accounting II	3
AEM 1160	Foundations of Agricultural Enterprise	3
AEM 1170	Western Canada Plants & Soils	3
ECN 1180	Microeconomics	3
HUM 1155	Ethics (OL)	3
		15

Year 2 Term I		
AEM 2250	Legal Aspects of Agriculture	3
AEM 2270	Canadian and World Agriculture	3
BUS 2292	Business Finance	3
ECN 2253	Macroeconomics	3
MKT 1152	Commodity Marketing	3
		15

Year 2 Term II		
AEM 2260	Sustainable Agricultural Management	3
AEM 2280	Agricultural Policy	3
BUS 2268	Organizational Behavior	3
BUS 2298	Human Resource Management	3
STS 2250	Statistics (OL)	3
		15

(OL) Course is also available through Online Learning

GRADUATION
Upon successful completion of all program requirements, students are awarded a diploma in Agricultural Enterprise Management.

School of Agriculture

Agricultural Sciences | p. 40

lethbridgecollege.ca/programs

Agriculture Sciences

Program Office: 403.382.6991 • agsciences@lethbridgecollege.ca

PROGRAM OVERVIEW
Agriculture Sciences provides theoretical and hands-on training for those entering many different career options in agriculture including university transfer. Program outcomes include implementing effective strategies to manage livestock production cycles and agronomy in western Canada while applying professionalism, business and risk management skills to those agriculture enterprises. Application of sciences and technology to innovative practices in agriculture production is a primary focus while integrating current industry standards and public expectations into sustainable, innovative and evolving agriculture practices. The program offers two major: Animal Sciences and Plant and Soil Sciences. The program is approximately 40% lab and field experiences.

CAREER OPPORTUNITIES
Graduates of our Agriculture Sciences program work in a wide variety of settings, including:

- Agricultural research
- Agri-business
- Agri-services
- Farm finance
- Farming
- Ranching

ADMISSIONS
New students are accepted into the Agriculture Sciences program for Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

Applicants are encouraged to have Grade 12 biology and Grade 12 chemistry. Students intending to pursue a university degree are strongly recommended to complete Grade 12 chemistry and Grade 12 math.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year I Core Courses
Both majors in the Agriculture Sciences program have a common first year. However, students must choose their major when applying to the program. Students have the option of switching majors at the end of the first year.

Year 1 Term I		Learning Credits
ACC 1170	Financial Accounting I	3
AGR 1171	Agriculture Issues	3
BIO 1175	Animal Science	3
COM 1162	Interpersonal Relationships and Communications	3
MKT 1152	Commodity Marketing	3
PLT 1152	Introduction to Botany	3
		18

Year 1 Term II		
AGR 1169	Agriculture Soils	3
AGR 2250	Agriculture Finance	3
AGR 2261	Sustainable Agriculture	3
AGR 2286	Agricultural Business Management	3
BUS 1166	Business Law	3
ENG 1150	Composition	3
		18

MAJORS
Upon completion of Year One, Agriculture Sciences students will focus on studies in their selected major.

PLANT AND SOIL SCIENCES MAJOR

Year 2 Term I		Learning Credits
AGR 2256	Precision Agriculture	3
ECN 1180	Microeconomics	3
PLT 2253	Integrated Pest Management I	3
PLT 2260	Special Crops	3
PLT 2262	Field Crops	3
*Elective		3
		18

Year 2 Term II		
AGR 2263	Greenhouse Management	3
AGR 2266	Soil Fertility	3
IRR 2252	Sprinkler Systems and Irrigation Management	3
PLT 1155	Pasture and Forage Production	3
PLT 2254	Integrated Pest Management II	3
		15

*This elective could be taken in either term.

Plant and Soil Sciences Major Elective Courses

AGR 1152	Agriculture Research Study	3
AGR 2264	Intensive Livestock Production	3
AGR 2267	Cow Calf Management	3
AGR 2268	Beef Feedlot Management	3
AGR 2280	Animal Nutrition	3
AGR 2294	Animal Health	3
BIO 1151	Environmental Issues	3
BIO 2263	Animal Physiology I	3
BIO 2264	Animal Physiology II	3

Agriculture Sciences

ANIMAL SCIENCE MAJOR

Year 2 Term I		Learning Credits
AGR 2267	Cow Calf Management	3
AGR 2294	Animal Health	3
BIO 2263	Animal Physiology I	3
ECN 1180	Microeconomics	3
PLT 2262	Field Crops	3
*Elective		3
		18

Year 2 Term II		
AGR 2264	Intensive Livestock Production	3
AGR 2268	Beef Feedlot Management	3
AGR 2280	Animal Nutrition	3
BIO 2264	Animal Physiology II	3
PLT 1155	Pasture and Forage Production	3
		15

*This elective could be taken in either term.

Animal Science Major Elective Courses

AGR 1152	Agriculture Research Study	3
AGR 1160	Introduction to Aquaponics Principles	3
AGR 2256	Precision Agriculture	3
AGR 2263	Greenhouse Management	3
AGR 2266	Soil Fertility	3
BIO 1151	Environmental Issues	3
IRR 2252	Sprinkler Systems and Irrigation Management	3
PLT 2253	Integrated Pest Management I	3
PLT 2254	Integrated Pest Management II	3
PLT 2260	Special Crops	3

Please note: Any course used to fulfill a core requirement cannot be used to fulfill an elective requirement.

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded an Agriculture Sciences Diploma that designates the appropriate major.

TRANSFERS
University of Calgary
Graduates of two-year diploma programs will be awarded up to five (5) full junior course options.

School of Agriculture

Agriculture Enterprise Management | p. 39

lethbridgecollege.ca/programs

Apprenticeship Training

Apprentices spend about 80 percent of their time learning on the job from a qualified tradesperson.

They spend the remaining 20 percent of their time taking specialized training courses, usually from colleges or technical institutes.

There are regular schedules of pay associated with apprenticeship training; Apprenticeship & Industry Training (AIT) provides information on this. Receiving your certified 'journeyman' papers or 'ticket' upon completion of your apprenticeship demonstrates your skill level based on provincial and industry standards. AIT sets the curriculum for each program and regulates the term and conditions of apprenticeship.

The high demand for qualified tradespeople means that job opportunities are abundant! Our facilities are modern and well equipped.

You'll use the latest equipment and take classes from instructors with real industry experience. In fact, for the last four years, Lethbridge College instructors have been named the best in the field for southern Alberta by AIT.

At Lethbridge College, we offer apprenticeship training for the following trades:

- Agricultural Equipment Technician
- Automotive Service Technician
- Baker
- Carpenter
- Cook
- Electrician
- Electrician – Alternate Delivery
- Heavy Equipment Technician
- Parts Technician
- Plumber
- Plumber and Gasfitter (B)
- Welder
- Welder-Wire Process Operator

Apprenticeship programs require 8 to 12 weeks of classroom training each year, in addition to on-the-job training. The Weekly Apprenticeship Training System (WATS) format allows apprentices to take classes once a week during the term of their apprenticeship.

At Lethbridge College, the Baker, Cook and Parts Technician apprenticeships follow the WATS format. First-to-third year distance program electricians have six months to complete the course and fourth year distance program electricians have nine months.

If you are an apprentice and would like to register for training courses at Lethbridge College, please contact:
Tel. 403.320.3323
Fax 1.888.819.9803
Toll-Free 1.800.572.0103

To arrange a tour, call 403.320.3322 or toll-free 1.800.572.0103.

If you would like to become an apprentice, visit: The Alberta Apprenticeship and Industry Training Board
www.tradesecrets.alberta.ca
Contact information is available at the following link: http://www.tradesecrets.alberta.ca/contactait/.

Local Apprenticeship Office:
Alberta Apprenticeship and Industry Training Board
Provincial Building, Room 280
200 - 5th Avenue South
Lethbridge, AB T1J 4C7

Telephone: 403.381.5382
Fax: 403.381.5795
Career Information Hotline: 1.800.661.3753

Ask about the Alberta Apprenticeship Scholarship Program. You might discover you're eligible for a financial award!

To learn more about Blue Seal and Trade Certification, please visit: https://lethbridgecollege.ca/departments/corporate-and-continuing.education/blue-seal-and-trades-certification

AGRICULTURAL EQUIPMENT TECHNICIAN
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Agricultural Equipment Technician program to indentured apprentices.

If you are looking for a future in agriculture and enjoy working with your hands to diagnose electrical, mechanical, and hydraulic problems, Lethbridge College's Agricultural Equipment Technician program is the perfect fit. You'll learn to maintain, diagnose problems and repair or overhaul equipment such as tractors and harvesting equipment.

To be successful in the industry, you'll put many of your skills to use such as strength to lift heavy machine parts, flexibility in working hours, some experience in the agriculture industry, and your math, communication and computer skills.

When you're working in the industry, you could find yourself travelling to farms for service calls or working in service centres. Take your agriculture and mechanical skills to another level with the Agricultural Equipment Technician Apprenticeship.

AUTOMOTIVE SERVICE TECHNICIAN
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Automotive Service Technician program to indentured apprentices.

North Americans love their cars and when their favorite vehicle needs attention, they want to turn to someone they can trust to provide the service they need. That's where you come in.

As an Automotive Service Technician, you can provide preventative maintenance, diagnose faulty systems, and repair automotive vehicles and light trucks. You can diagnose and repair engines, steering systems, braking systems, drive trains, vehicle suspensions, electrical and air-conditioning systems. You'll even make sure the ride stays smooth through wheel-balancing and alignment when needed.

The direction you choose to follow for your career could see you working in a large shop, specializing in repairing, rebuilding and servicing specific parts, like braking, suspension or steering systems. In smaller shops, Automotive Service Technicians may work on a wider variety of repair jobs, beginning by reading the work order and examining the vehicle.

Apprenticeship Training

It's the type of career that can be particularly rewarding if you enjoy doing precise work that is varied and challenging.

You'll train in small classes with lots of hands-on practice. You'll also find that our shop facilities have state-of-the-art tools and equipment that you will use to repair a wide variety of vehicles.

Similar Lethbridge College option: Automotive Systems – a 32-week certificate program. For details, please refer to the program information pages.

BAKER (WEEKLY APPRENTICESHIP TRAINING SYSTEM - WATS)
Year 1 and Year 2 pilot 19FL (Year 3 pending AIT approval)
Chair: 403.320.3245
culinary@lethbridgecollege.ca

Lethbridge College offers the Baking program to indentured apprentices through WATS delivery.

As a Baker Apprentice you will learn through observation, practice and study. With the Weekly Apprenticeship Training System (WATS) at Lethbridge College, the training takes place with your needs in mind. One day a week is spent at the College gaining the formal experience vital to your culinary future. For the rest of the week, you will be putting what you've learned to practical experience on the job. It's the perfect blend that allows you to pursue your education while continuing to earn an income.

From working in a bakery to catering special banquets or preparing gourmet delights in an upscale restaurant, your Baker Apprentice training will prepare you for a host of opportunities. You will also benefit from Lethbridge College's well-deserved culinary reputation. Our instructors have been recognized with everything from provincial to international awards for their skills. Their commitment to their craft is your guarantee of a quality experience at Lethbridge College.

CARPENTER
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Carpentry program to indentured apprentices through CBAT delivery.

From major construction projects like bridges and buildings to small finishing touches a new homeowner can be proud of, carpenters have a wide range of career options available. You can put your skills and knowledge to use providing a service that continues to be in strong demand.

Keep your personal interests in mind as you set your goals as a carpenter. Your ability to read plans, select and measure materials, and coordinate projects can help ensure costly mistakes and omissions are avoided on the job site. Attention to detail will keep things from falling through the cracks. You can look forward to pursuing a range of opportunities or specializing in one type of work such as framing, concrete work or finishing work. You could work alone, in teams or with helpers. Whatever direction you take, you'll find the work rewarding if you take pride in creating a variety of things with your hands and honing your expertise in woodcraft.

At Lethbridge College, we'll provide you with the high-quality training you want as part of your Carpenter apprenticeship. You'll relate well to our instructors as they share their practical experiences with you. You'll also appreciate our shops, which will give you access to the equipment and experience you need to succeed in your chosen field.

COOK (WEEKLY APPRENTICESHIP TRAINING SYSTEM - WATS)
Chair: 403.320.3245
culinary@lethbridgecollege.ca

Lethbridge College offers the Cooking program to indentured apprentices through WATS delivery.

With the right combination of ingredients, training and skill, you can create magic in the kitchen. Lethbridge College has the recipe for your success with our Cook Apprentice program. You supply the enthusiasm and desire to achieve, and we'll supply the experience you need to keep your apprenticeship on the right track.

As a Cook Apprentice you will learn through observation, practice and study. With the Weekly Apprenticeship Training System (WATS) at Lethbridge College, the training takes place with your needs in mind. One day a week is spent at the College gaining the technical training vital to your culinary future. For the rest of the week you will be putting what you've learned to practical experience on the job. It's the perfect blend that allows you to pursue your education while continuing to earn an income.

From catering special banquets to preparing meals for large institutions to cooking up gourmet delights in an upscale restaurant, your Cook Apprentice training will prepare you for a host of opportunities. You will also benefit from Lethbridge College's well-deserved culinary reputation. Our instructors have been recognized with everything from provincial to international awards for their skills. Their commitment to their craft is your guarantee of a quality experience at Lethbridge College.

Similar Lethbridge College option: Culinary Careers – a 16-month diploma program with the option to write your WAT I and WAT II equivalency exams (for a fee) and register into the 3rd year WATS program to complete your apprenticeship. For details, please refer to the program information pages.

ELECTRICIAN
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Electrician program to indentured apprentices through CBAT or Alternate Delivery.

If you thrive on the opportunity to use your skills in a variety of settings, a career as an electrician could really light up your future. Electricians install, alter, repair and maintain systems designed to provide heat, light, power, control, signal or fire alarms for all types of buildings, structures and premises.

You won't find yourself stuck in an office somewhere as an Electrician. Depending on the direction your career follows, you can expect work conditions to vary with each job, especially in construction. From working outdoors on scaffolding to indoor jobs in clean comfort, the changes can be dramatic, helping to ensure you won't be bored with your chosen career.

If you enjoy working with people, you could consider specializing in specific types of installations, such as residential (housing developments), commercial (office buildings), institutional (hospitals), or industrial (plants, factories). Being organized and having a friendly, courteous approach is vital to jobs in these areas. Our instructors maintain close ties to industry to stay on top of trends and provide you with the best education for your investment.

Apprenticeship Training

Classes are limited to a maximum of 16 students which provides for a low student-to-instructor ratio and enhanced learning. Our modern facilities are well-equipped and impeccably maintained.

Lethbridge College offers the electrician program to indentured apprentices through CBAT or Alternate Delivery.

The CBAT delivery method, which is for most apprentices, provides you with a flexible approach to your training. This option
offers several advantages, including:

- a combination of lectures, labs and self- study, that lets you work at your own pace;
- flexibility in completion times as students can complete:
    - in less than the required eight or 12 weeks
    - in more than eight or 12 weeks, up to 25 percent extra time if you are having difficulty learning the material;
- students have direct access to instructors on a one-to-one basis at least three hours per day.

ELECTRICIAN - ALTERNATE DELIVERY
Self-Paced Electrician Training
Advantages:
- Work at your own pace
- Students in remote locations minimize time away from home
- Do not need to be away from work for 8 to 12 weeks
- Advisor that may be contacted by phone or e-mail

Entrance Requirements (Alternate Delivery)
You must be an indentured Electrician Apprentice that has been indentured in the past 18 months or has attended a technical training period in the past 18 months. If you have attended a technical training period, you must have a pass mark of 75 percent or better on your provincial exam.

Time Requirements (Alternate Delivery)
1st, 2nd, and 3rd year students have up to six months to complete the course, and 4th year students have 9 months to complete.

Supply Requirements (Alternate Delivery)
A computer with a printer, using Internet Explorer 8.0 or higher with Internet access.

How Do I Progress Through the Course? (Alternate Delivery)
Lethbridge College course material that is supplied through the Lethbridge College Bookstore is the primary source of material.

At the end of each module, you will be required to write an end of module quiz that you access through the Internet. These quizzes are used to ensure that you have understood the module material. Throughout the course, you will be required to write supervised exams. These marks will count towards your final mark in the course. You must obtain a 65 percent average in theory, lab, and code to be qualified to write your provincial exam. The site for writing these supervised exams will be at Lethbridge College or a site that is closer to the student's residence which will be arranged at the time of registration. Labs must be completed at Lethbridge College during normal class hours, and must be booked with your advisor.

How Do I Begin? (Alternate Delivery)
Eligible apprentices must first contact the Electrical program at Lethbridge College for an interview (contacts are listed below). Once department approval has been given, you may contact the Registrar's Office to enroll in the program. You will be contacted by a Coordinator who will supply you with information needed to receive materials and ID numbers.

Contact: electricaldistance@lethbridgecollege.ca or the Program Chair at 403.320.3366

HEAVY EQUIPMENT TECHNICIAN
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Heavy Equipment Technician program to indentured apprentices.

Heavy Equipment Technicians repair, overhaul and maintain heavy equipment for many industries including highway transport, construction, mining, agricultural and oilfield.

If you work with a logical perspective, this could be the career for you. It's a field with strong job prospects now and for the future.

You can expect everything from routine maintenance, to troubleshooting that will challenge your skills and abilities. Heavy Equipment Technicians who are employed by companies with their own fleet will typically follow a preventive maintenance schedule and make any necessary repairs. In dealerships and independent repair shops, you may perform general equipment repairs or specialize in engines, powertrains, hydraulics, electrical and electronics, or air-conditioning.

Your work environment will vary considerably from one job to another. You could find yourself working in a shop performing major repairs, or on a construction site, contributing directly to the success of a specific project. Either way, you'll find it a rewarding experience if you enjoy achieving expertise with precise work, problem-solving and working with your hands.

Similar Lethbridge College option: Agricultural and Heavy Equipment Technician – a one-year certificate program equivalent to the first and second years of apprenticeship training. For details, please refer to the program information pages.

PARTS TECHNICIAN (WEEKLY APPRENTICESHIP TRAINING SYSTEM - WATS)
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Parts Technician program to indentured apprentices through WATS delivery.

Knowing what is what and where it is located in a large warehouse requires a special set of skills that you can acquire as a parts technician. It can be the ideal opportunity for you if you enjoy variety, developing expertise, working with people and participating in your customers' success.

As a parts technician, you'll manage and dispense parts inventories, which may include automotive, heavy duty, farm implement, industrial, recreational vehicle, jobbers, plumbing, electrical and so on.

You may be responsible for handling stock, warehousing, identifying and cataloguing parts and assemblies, as well as ordering, receiving, inspecting, sorting, pricing and selling. It all depends upon the size of the wholesale, retail or warehouse distribution business and the types of parts involved.

If you demonstrate the necessary skills and can work effectively with people, you could look forward to advancing to supervisory positions, such as parts department manager, store manager, or even store owner. With some sales experience, interested parts technicians can move into sales representative positions. Lethbridge College has designed this program specifically with you in mind. We follow the Weekly Apprenticeship Training System (WATS) format.

You will attend classes only one day a week, usually from mid-day to early evening, so your time away from the job will be minimized.

PLUMBER
PLUMBER and GASFITTER (B)
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Plumber program to indentured apprentices.

Plumbers plan, install and service plumbing systems, fixtures, piping equipment and controls. These piping systems may be used to transport water, waste, gases or hot liquids.

As a plumber, you may specialize in the types of work you do:
- installing water conditioners
- installing plumbing in houses under construction
- installing plumbing in commercial, institutional, industrial or public buildings
- renovating, maintaining and repairing existing plumbing
- installing hydronic heating and chilled water systems

Plumbers are employed by construction contractors, plumbing repair shops and large organizations. Some are self-employed.

WELDER
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Lethbridge College offers the Welding program to indentured apprentices.

Turn up the heat on your future and get involved with an apprenticeship that can allow you to build a solid career. Welders are in demand in a variety of capacities.

Welders join or sever metals in beams, girders, vessels, piping and other metal components. You could also be involved in making metal parts used in construction and manufacturing plants, or welding parts, tools, machines and equipment.

Welding usually involves applying heat to metal pieces to melt and fuse them together. How you will actually do this will depend on the project and such things as the type of metal, its size and shape, and requirements for finished product strength. Welders use different processes and fillers depending upon the type of metal, its size and shape, and requirements for finished product strength.

For a typical welding project, they:
- develop patterns for projects or follow directions given in layouts, blueprints and work orders
- clean, check for defects and shape component parts, sometimes using a cutting torch
- weld parts together

Welders may also build up worn parts by welding layers of high-strength hard-metal alloys onto them.

You'll find the work rewarding if you enjoy building things and working with little direction or supervision. To be successful in the trade, welders need manual dexterity, good vision (glasses are acceptable), eye-hand coordination, the ability to concentrate on detailed work, and patience. You should also expect to work in a variety of environments from outdoor construction sites to indoor jobs in production and repair shops.

As a welder, your career can take you to a variety of industries including vessel or structural steel assembly, steel fabrication, heavy equipment repair, pipeline construction, and commercial and industrial construction.

WELDER – WIRE PROCESS OPERATOR
Chair: 403.320.3411
tradeslc@lethbridgecollege.ca

Welder – Wire Process Operators work primarily in production and manufacturing plants, joining components and sub-assemblies to make various items using a variety of construction materials.

Welding in this branch of the welder trade is restricted to Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) and other semiautomatic wire feed welding processes.

The Welder – Wire Process Operator uses different welding processes and filler metals depending upon the type of metal, its size and shape, and requirements for finished mechanical properties.

For a typical welding project, they:
- join parts together
- may build up worn parts by welding layers of high-strength hard-metal alloys onto them
- follow directions given in layouts, blueprints and work orders
- clean welds, check for defects and may use a cutting torch

Welder – Wire Process Operators are employed in a variety of industries including manufacturing vessel or structural steel fabrication, general steel fabrication, truck body fabrication and heavy equipment repair.

Build your future in the trades.

Lethbridge College offers a wealth of high-quality trades programming to all learners, regardless of your level of experience in the industry. Whether you are just beginning to explore the trades, are looking to apprentice, or even if you just want to learn a new skill, we can help.

Apprenticeship programs involve 8-12 weeks of classroom training per year.

Weekly Apprenticeship Training System (WATS) programs involve one day of training at Lethbridge College per week throughout the length of the program.

lethbridgecollege.ca/trades

Architectural Animation Technology

Pending Government Approval

Program Office: 403.320.3468 • archanimation@lethbridgecollege.ca

PROGRAM OVERVIEW
Architectural Animation technologist communicate spatial ideas and basic construction visualization techniques to a variety of industries in the world of architecture, interior design and digital environments within virtual worlds. Spatial animation, architectural immersion, augmented reality, material replication and spatial post-production skills are gained through a variety of learning labs and studio projects in the Architectural Animation Technology diploma program.

Lethbridge College's unique, two year diploma program will give you specialized production knowledge and visual communication skills in the world of architecture. You will become a necessary and creative asset to any residential, hospitality, institution, retail or landscape project, assisting clients and architects with code-complaint virtual space creation and extended reality 3 and 4 dimensional experiences. You will work on projects that simulate real world design problems and gain professional experience in both commercial and residential architectural design communication.

The Architectural Animation Technology Program will assist you in mastering a variety of leading-edge technologies and prepare you for an exciting and ever-changing industry. A required practicum lets you demonstrate your digital rendering and animation skills and abilities in the national workplace and contribute to community-based design projects while gaining valuable industry experience.

CAREER OPPORTUNITIES
Our diploma program in will prepare you to work with design teams in a wide variety of fields.

- Architectural animation communications specialist
- Architectural Illustrator
- BIM draftsperson
- CAD designer
- Digital environmental artist
- Immersive Artist
- Three-dimensional designer
- Three-dimensional modelling and texture artist

ADMISSIONS
New students are accepted into the Architectural Animation Technology program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

School of Media and Design

Digital Communications and Media	p. 73
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Multimedia Production	p. 103
Virtual and Augmented Reality	p. 116

lethbridgecollege.ca/programs

CURRICULUM

Year 1 Term I		Learning Credits
IDM 1158	Representations I	3
IDM 1163	History of Interiors I	3
IDM 1170	Colour and Lighting	3
IDM 1179	Design Fundamentals	3
VXR 1150	Introduction to Immersive Technology	3
		15

Year 1 Term II		
ENG 1156	Business Writing	3
IDM 1159	Representations II	3
IDM 1173	History of Interiors II	3
IDM 1181	Residential Studio	3
IDM 1190	Digital Drafting	3
		15

Year 2 Term I		
AAT 2250	Visual Communication	3
AAT 2260	Immersive Modelling	3
AAT 2270	Production	3
IDM 2290	Digital Illustration	3
VXR 1160	Modelling for Extended Realities	3
		15

Year 2 Term II		
AAT 2261	Immersive Architecture	3
AAT 2280	Capstone Studio	6
AAT 2290	Industry Integration	3
IDM 2276	Professional Portfolio	3
IDM 2279	Global Design Trends	3
		18

GRADUATION
Upon successful completion of all program requirements, students are awarded a diploma in Architectural Animation Technology.

Automotive Systems

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

PROGRAM OVERVIEW
At Lethbridge College we have over 45 years' experience teaching high-quality automotive servicing skills. Our practical, one-year program in Automotive Systems has been designed in consultation with members of industry in order to help you build a successful career in automotive service.

Working in small labs with lots of hands-on practice, you'll develop your understanding of automotive technology – from simple components to advanced computerized vehicle systems. Our shop facilities have state-of-the-art tools and equipment that you will use to repair a wide variety of vehicles, including shop units and real customer vehicles. We encourage you to work on your own vehicle in our shop!

At the end of the program, you'll be diagnosing problems and repairing a wide range of vehicles. You'll be familiar with the latest in shop equipment and electronic diagnostic technology and you'll be ready to start a career in automotive service.

CAREER OPPORTUNITIES
- Apprentice Automotive Service Technician
- Automotive Systems Certificate Instructor
- Equipment Salesperson
- Journeyman Automotive Service Technician
- Mobile Repair Service Technician
- Service Manager
- Shop Foreman
- Shop Owner

ADMISSIONS
New students are accepted into the Automotive Systems program for the Fall term only with a late August program start date.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College program, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Applicants to this program do not require a high school diploma; however, they must satisfy the following specific course requirements (or equivalencies):
- Grade 11 English
- Grade 11 math

The following courses or subjects are recommended for the best possible outcome in the Automotive Systems program:
- Physics, chemistry and science
- Grade 12 math and English

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
AST 1116	Introduction to Trade Practices	1.5
AST 1119	Basic Automotive Electrical I	3
AST 1122	Automotive Industry	1.5
AST 1131	Automotive Braking Systems	3
AST 1133	Automotive Drivelines	3
AST 1134	Automotive Directional Control Systems	3
AST 1135	Basic Maintenance	3
		18

Year 1 Term II		
AST 1138	Automotive Electrical Systems II	3
AST 1139	Advanced Automotive Electrical Systems	3
AST 1141	Automotive Drivetrains	3
AST 1142	Automotive Engine Systems	3
AST 1143	Engine Fundamentals	3
AST 1145	Performance Projects	3
FWK 1125	Automotive Field Work	1.5
		19.5

Special Note: Students who successfully complete the Automotive Systems one-year certificate program are eligible to write their first and second year apprenticeship exams and earn 300 hours towards first period work experience and 300 hours towards second period work experience of the Automotive Service Technician Apprenticeship program.

GRADUATION
Upon successful completion of all program requirements, students are awarded a certificate in Automotive Systems.

Crooks School of Transportation

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Automotive Service Technician Apprenticeship	p. 42
Heavy Equipment Technician Apprenticeship	p. 44
Parts Technician Apprenticeship	p. 44

lethbridgecollege.ca/programs

Bachelor of Nursing

Program Office: 403.320.3348 • NESA-RN@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

Due to the nature of the program, it is recommended learners contact an Academic Advisor with initial inquiries. The B.N. program requirements, and curriculum, including course names and numbers, may be changing for the Fall 2020 intake - please see an Academic Advisor for more information on taking courses towards the program. Call 403.320.3323 or 1.800.572.0103 Extension 3323

PROGRAM OVERVIEW
The nursing profession is one of the cornerstones of modern health care. Lethbridge College and the University of Lethbridge have teamed up to offer a collaborative program that offers excellent opportunities for education.

You'll receive a top-quality education in an environment known for producing highly qualified nurses. This is due in part to the student-centered nature of the program, which encourages learners to take responsibility for their own learning under the guidance of experienced faculty members. You will work closely with our instructors, combining theory and practice through student-centered learning. Course-related practicums in hospitals, community health-care agencies and home care agencies will let you apply your new-found knowledge in the real world. Our exciting Simulated Patient Health Environment for Research and Education (SPHERE) lab is incorporated throughout the curriculum.

Through this combination of theory and hands-on clinical experience, you will develop skills in clinical reasoning, innovative clinical practice, leadership, and the use of innovative technologies. Our curriculum emphasizes the continuum of care across the lifespan.

When you complete the degree program, you will be eligible to write the NCLEX-RN Exam, giving you the opportunity to be licensed as a Registered Nurse (RN).

Your natural caring and compassionate nature combined with a commitment to high standards and detail makes you an excellent candidate for the program. Contact us to find out more!

CAREER OPPORTUNITIES
Nurses work in a range of healthcare fields, including acute and continuing care, public and community health, research, and education.

ADMISSIONS
All applicants applying to the four-year BN degree program must apply directly to the University of Lethbridge. Please refer to the U of L admissions information.

All newly-admitted students will register in and attend courses at Lethbridge College for the first two years of the program. Students will register in and attend courses at the University of Lethbridge for the final two years of the program.

ACADEMIC REQUIREMENTS
High school and transfer student applicants must have satisfactory completion of the following Alberta high school courses or equivalents:

- English Language Arts 30-1 (minimum grade of 60%)
- Biology 30
- Chemistry 30
- Mathematics 30-1, Mathematics 30-2, or Pure Mathematics 30
- A fifth course (not including Special Projects) at the Grade 12 level

Note: Admission is competitive, and the Faculty of Health Sciences at the University of Lethbridge reserves the right of selection of all students for admission and readmission to the faculty on the basis of academic qualifications. Competitive marks will be based on the average of grades in the five (5) courses listed above. Transfer students may have a minimum 3.0 credit hour university-level course mark in the same discipline used in place of the high school mark, if it is more advantageous. The fifth course may be substituted for any minimum 3.0 credit hour university-level course.

ADMISSION ROUTES
Admission to the Bachelor of Nursing program may be gained by one of the following admission routes:

a) Alberta or other Canadian high school credentials.
b) Transfer from recognized colleges or universities.
c) Special Case Admission.
d) Credentials from other countries.

The Faculty of Health Sciences at the University of Lethbridge will consider qualified, non-competitive applicants with previous experience related to nursing on a case-by-case basis.

Applicants with previous experience related to nursing, who are seeking Special Case Admission, will be required to submit documents as per admission requirements at the University of Lethbridge, as well as:

1. A letter of intent, describing the nature of previous experience as it relates to nursing and the reason for pursuing nursing;
2. A letter of reference from an employer;
3. A resume detailing relevant work, volunteer, and life experience.

Note: All applicants may be invited to an interview.

Transfer Students
A student may transfer up to 20 semester course equivalents (60.0 credit hours). Students may receive transfer credit for both nursing and non-nursing courses. Nursing, human anatomy/physiology, and microbiology courses must have been completed at an accredited post-secondary institution not more than three (3) years prior to admission. Non-nursing courses are subject to the time limits of the relevant faculty courses for which transfer credit is being sought and must be discussed at the time of acceptance into the Faculty of Health Sciences at the University of Lethbridge.

International Students
Applicants whose first language is other than English must provide acceptable evidence of English Language Proficiency according to the U of L admissions information.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

Bachelor of Nursing

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial "Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs", all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student.

Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

Academic Standards
During orientation to the program, students receive a handbook outlining all the program policies. It is very important for learners to review and understand these requirements.

A student who falls within the ranges below will be in good standing, on academic probation, or required to withdraw, respectively:

Number of Completed Courses (includes transfer courses)[1]	Good Standing	Academic Probation	Required Withdrawal
0-5	1.70 or higher	0.00-1.69	-
6-10	1.70 or higher	1.50-1.69	Below 1.50
11-20	1.85 or higher	1.70-1.84	Below 1.70
21-30	2.00 or higher	1.85-1.99	Below 1.85
31-40	2.00 or higher	-	Below 2.00

[1] The number of complete courses is based on a standard 3.0 credit-hour course.

Academic Disqualification
A student is required to withdraw from the Bachelor of Nursing program if any of the following occurs:

- the cumulative GPA falls below the required levels for two or more consecutive terms at the end of the spring term;
- the student fails any internship or nursing practicum course; or
- the student fails to meet the Standards of Professional Conduct (see below).

A student dismissed for academic reasons may apply for readmission by the appropriate deadline after a lapse of one full year. Readmission is not guaranteed. Students dismissed for a second time will not be re-admitted to the program. Students are advised to contact an academic advisor as early as possible to discuss the possibility of readmission.

STANDARDS OF PROFESSIONAL CONDUCT
The standards of professional conduct for students in the Bachelor of Nursing program are published in the NESA Student Handbook. Students are subject to the general rules and regulations of the agencies with which they are affiliated during practice experiences. Students may be required to withdraw for violations of professional conduct. Faculty members who are supervising clinical practice experiences may require a student to leave a clinical setting at any time if, in the opinion of the faculty member, the student's practice threatens patient/client safety or is disruptive to patient/client care. The Dean, or the Chair, will review the case in a timely fashion to determine whether, and under what conditions, the student may return to the clinical setting.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

Students are expected to travel for practicum placements and are responsible for associated costs.

- Year III and Year IV BN fees are determined by the University of Lethbridge. Please contact the U of L at 403.329.2649 for more information.

Bachelor of Nursing

CURRICULUM
The B.N. program requirements may be changing for the Fall 2020 intake - please see an Academic Advisor for more information on taking courses towards the program.

Year 1 Term I		Learning Credits
BIO 1160	Anatomy and Physiology I	3
ENG 1150	Composition (U of L HUM1xxx) (OL)	3
NSG 1163	Introduction to Nursing Practice	6
NSG 1168	Intro to Nursing and Concepts of Health	3
PSY 1160	(U of L 1000) Introduction to Psychology (OL)	3
		18

Year 1 Term II		
BIO 1161	Anatomy and Physiology II	3
BIO 1162	Microbiology (OL)	3
NSG 1155	Concepts of Health: Individuals/Families	3
NSG 1173	Health and Physical Assessment	6
SOC 1160	(U of L 1000) Introduction to Sociology (OL)	3
		18

Year 2 Term I		
HUM 1155	(U of L Philosophy 1000) Ethics (OL)	3
NSG 2254	Maternity and Pediatric Nursing	3
OR		
NSG 2268	Disruptions in Health I	3
NSG 2263	Medical-Surgical Nursing Practice	6
OR		
NSG 2293	Maternity and Pediatric Nursing Practice	6
NSG 2290	Pharmacology and Applied Therapeutics	3
PSY 1170	Human Development across the Lifespan (OL)	3
		18

Year 2 Term II		
GLER	Social Science Elective	3
GLER	Humanities or Fine Arts Elective	3
NSG 2254	Maternity and Pediatric Nursing	3
OR		
NSG 2268	Disruptions in Health I	3
NSG 2263	Medical-Surgical Nursing Practice	6
OR		
NSG 2293	Maternity and Pediatric Nursing Practice	6
NSG 2279	Nursing Issues and Health Care in Canada	3
		18

Special Note: Whenever possible, nursing theory courses are aligned with concurrent clinical practice experiences.

(OL) indicates courses which are also available through Online Learning.

General Requirements

1. Successful completion of at least 40 course equivalents (121.0 credit hours) with a cumulative grade point average of at least 2.00 on all courses taken for credit toward the degree.

2. Attain a minimum cumulative grade point average of at least 2.50 on all required Nursing and Health Sciences courses taken for credit toward the program in Years 3 and 4.

3. Completion of the General Liberal Education Requirement (GLER).

4. Minimum Grade Requirement
   A minimum grade of C is required in Nursing 1163/Nursing 1220 and Nursing 1173/Nursing 1320. A student who receives a grade of C - or less must repeat the course prior to proceeding in the program.

   A minimum grade of C - is required in all Nursing courses and BIO 1160, BIO 1161, and BIO 1162 in order to meet degree requirements. Any student who receives a grade of D + or lower in these courses is required to repeat the course and achieve a higher grade before being allowed to proceed in the program.

5. Not more than three Independent Study courses may be taken for credit toward the degree. Residence Requirement: 20 courses including a minimum of 12 in Nursing and Health Sciences.

6. All requirements must be completed within seven years of the first Nursing course used for credit toward the degree.

Year 3 Term I		
One of:		
NURS 3020	Community Health Nursing	3
NURS 3125	Mental Health Nursing	3
NURS 3230	Disruptions in Health II	3
One of:		
NURS 4510	Mental Health Nursing Practice	6
NURS 4520	Community Health Nursing Practice	6
NURS 4530	Rural Nursing Practice	6
HLSC 3450/ PSYC 3450	Applied Statistics for Clinical Practice	3
NURS 3360	Nursing Research	3
		15

Year 3 Term II		
Fine Arts & Humanities Elective		3
NURS 3135	Leadership in Nursing	3
One of:		
NURS 3020	Community Health Nursing	3
NURS 3125	Mental Health Nursing	3
NURS 3230	Disruptions in Health II	3
One of:		
NURS 4510	Mental Health Nursing Practice	6
NURS 4520	Community Health Nursing Practice	6
NURS 4530	Rural Nursing Practice	6
		15

Year 4 Term I		
Health Sciences/Public Health Elective		3
One of:		
NURS 3020	Community Health Nursing	3
NURS 3125	Mental Health Nursing	3
NURS 3230	Disruptions in Health II	3
NURS 4135	Global Health Issues and Trends	3
One of:		
NURS 4510	Mental Health Nursing Practice	6
NURS 4520	Community Health Nursing Practice	6
NURS 4530	Rural Nursing Practice	6
		15

Year 4 Term II		
NURS 4750	Senior Preceptorship	15
		15

Bachelor of Nursing - After Degree

Program Office: 403.320.3348 • NESA-RN@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

Due to the nature of the program, it is recommended learners contact an Academic Advisor with initial inquiries. Call 403.320.3323 or 1.800.572.0103 ext. 3323.

PROGRAM OVERVIEW
The Bachelor of Nursing - After Degree (BN-AD) program is designed to provide an accelerated course of studies to a Bachelor of Nursing for students who have previously earned an approved degree in any discipline or field of study. The program will be offered over six consecutive semesters; students will attend from September to August and will be able to complete in a period of approximately 24 months. Appropriate breaks between and occasionally within semesters will be scheduled in order to provide time for vacation. This degree is offered in collaboration with the University of Lethbridge, with the first two semesters occurring at the Lethbridge College campus and the final four semesters occurring at the University of Lethbridge. When you complete the program, you will be eligible to write the NCLEX-RN Exam, giving you the opportunity to be licensed as a Registered Nurse (RN).

ADMISSIONS
All applicants applying to the Bachelor of Nursing – After Degree program must apply directly to the University of Lethbridge. Please refer to the U of L admissions information.

Applicants must have a completed baccalaureate degree from an institution recognized by the University of Lethbridge.

The following courses are required for admission: Human Anatomy (with laboratory component) and Physiology, six credit hours; Microbiology, three credit hours; Statistics, three credit hours; fine arts and humanities courses, six credit hours; and social science courses, six credit hours.

Note: Human Anatomy and Physiology, Microbiology, and Statistics must be completed within 10 years preceding the year of admission.

Applicants whose first language is other than English must provide acceptable evidence of English Language Proficiency according to the U of L admissions information. All other requirements remain congruent with those of the Bachelor of Nursing program.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial "Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs", all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE's may include day, evening, and/or weekend schedules.

Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

Academic Standards
During orientation to the program, students receive a handbook outlining all the program policies. It is very important for learners to review and understand these requirements.

A student who falls within the ranges below will be in good standing, on academic probation, or required to withdraw, respectively:

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11-20	1.85 or higher	1.70-1.84	Below 1.70
21-30	2.00 or higher	1.85-1.99	Below 1.85
31-40	2.00 or higher	-	Below 2.00

[1] The number of completed courses is based on a standard 3.0 credit-hour course.

Bachelor of Nursing - After Degree

Academic Disqualification
A student is required to withdraw from the Bachelor of Nursing program if any of the following occurs:

- the cumulative GPA falls below the required levels for two or more consecutive terms at the end of the spring term;
- the student fails any internship or nursing practicum course; or
- the student fails to meet the Standards of Professional Conduct (see below).

A student dismissed for academic reasons may apply for readmission by the appropriate deadline after a lapse of one full year. Readmission is not guaranteed. Students dismissed for a second time will not be re-admitted to the program. Students are advised to contact an academic advisor as early as possible to discuss the possibility of readmission.

Standards of Professional Conduct
The standards of professional conduct for students in the Bachelor of Nursing – After Degree program are published in the Student Handbook. Students are subject to the general rules and regulations of the agencies with which they are affiliated during practice experiences. Students may be required to withdraw for violations of professional conduct.

Faculty members who are supervising clinical practice experiences may require a student to leave a clinical setting at any time if in the opinion of the faculty member, the student's practice threatens patient/client safety or is disruptive to patient/client care. The Dean, or the Chair in the case of Year I, Terms I & II, will review the case in a timely fashion to determine whether, and under what conditions, the student may return to the clinical setting.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students are expected to travel for practicum placements and are responsible for associated costs.

- Terms III - VI BN-AD fees are determined by the University of Lethbridge. Please contact the U of L at 403.329.2649 for more information.

CURRICULUM

Term I		Learning Credits
NSG 1181	Nursing Concepts: Individuals & Families	6
NSG 1182	Intro to Nursing: Assessment & Practice	6
NSG 3360	Nursing Research (U of L)	3
		15

Term II		
NSG 2268	Disruptions in Health I	3
NSG 2269	Rural Nursing Practice	6
NSG 2290	Pharmacology and Applied Therapeutics	3
		12

Terms III - VI are delivered at the University of Lethbridge.

Term III		
NURS 2125	Maternity and Pediatric Nursing	3
NURS 2255	Maternity and Pediatric Nursing Practice	5
NURS 3125	Mental Health Nursing	3
NURS 4511	Mental Health Nursing Practice	5
		16

Term IV		
NURS 3020	Community Health Nursing	3
NURS 3135	Leadership in Nursing	3
NURS 4520	Community Health Nursing Practice	6
		12

Term V		
NURS 3230	Disruptions in Health II	3
NURS 4135	Global Health Issues and Trends	3
NURS 4531	Medical-Surgical Nursing Practice	6
		12

Term VI		
NURS 4750	Senior Preceptorship	15
		15

School of Health Sciences

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lethbridgecollege.ca/programs

Business Administration

Program Office: 403.320.3213 • business@lethbridgecollege.ca

PROGRAM OVERVIEW
A strong understanding of effective business principles is key to success not only in business, but also in government, not-for-profit, and charitable agencies and organizations. The solid understanding and skills you gain in our two-year diploma program will provide a strong foundation which can lead to a wide variety of future opportunities.

First year includes theoretical and practical exposure to accounting, management, marketing, business law, entrepreneurship, microeconomics, communication, and business technology. In second year, students build on the basics by taking courses specific to one of four majors:
- Accounting
- Management
- Marketing
- General Business

As part of a strong close-knit community of students and instructors, you'll develop in-depth knowledge and skills in these specific areas. A variety of opportunities await Business Administration graduates, including the chance to pursue a career immediately, continue studies in a university degree program and/or obtain one of a number of professional designations.

CAREER OPPORTUNITIES
Our diploma program in Business Administration will prepare you for a career in a wide range of fields, including:
- Accounting
- Advertising
- Agri-Business
- Banking
- E-commerce
- Energy Industry
- Entrepreneurship
- Financial Services
- Human Resources
- Management
- Marketing
- Retail Management
- Sales
- Taxation
- Technology

The Business Administration program is also excellent preparation for further post-secondary education.

ADMISSIONS
New students are accepted into the Business Administration program in the Fall (September), Winter (January), and Spring (May) terms.

Note: Prospective students wishing to spread their courses over an additional term and/or commence their studies in the Winter or Spring terms are encouraged to consult with an advisor for information regarding pre-requisites and course sequencing. Students who begin their studies in the Winter (January) term and plan to complete an accounting major must have credit for ACC-1175 prior to September in order to complete the program within two years. This means completing ACC-1175 in the Spring (May) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view the fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1		Learning Credits
ACC 1170	Financial Accounting I	3
ACC 1175	Financial Accounting II	3
BUS 1166	Business Law	3
BUS 1168	Management Communication*	3
BUS 1170	Introduction to Management	3
BUS 1177	Entrepreneurship	3
BUS 1185	Business Computer Applications	1.5
CPU 1165	Designing Spreadsheet Applications	3
ECN 1180	Microeconomics	3
ENG 1168	Business Communication*	3
MKT 1188	Introduction to Marketing	3
		31.5

* The combination of BUS 2269 (Management Communications) and PRS 1155 (Speech) is considered to be an acceptable alternative for BUS 1168.

* The combination of ENG 1156 (Business Writing) and PRS 1155 (Speech) is considered to be an acceptable alternative for ENG1168.

ACCOUNTING MAJOR
The success of any business or organization is tied very closely to its financial position. Put your appreciation for detail and numbers to work and develop the knowledge and skills that will enable you to provide the kinds of services valued by organizations and individuals alike. Through theoretical and practical application, you will gain a very solid in-depth working knowledge of accounting, statistics, business finance, macroeconomics, individual and corporate income tax, and computerized accounting.

You will leave our program with the background needed to succeed in an accounting-related position with business, government, not-for-profit and charitable organizations, and/or pursue further education towards an accounting designation. Many of our students have done one or more of these - with great success.

Business Administration

Year 2		Learning Credits
ACC 2250	Management Accounting I	3
ACC 2251	Management Accounting II	3
ACC 2271	Intermediate Financial Accounting I	3
ACC 2273	Intermediate Financial Accounting II	3
ACC 2278	Computerized Accounting for Management	3
BUS 2292	Business Finance	3
ECN 2253	Macroeconomics	3
STS 2250	Statistics	3
TAX 2251	Taxation	3
Approved Elective		3
(See elective lists A and B)		
		30

MANAGEMENT MAJOR

The success of any business or organization is highly dependent on its management expertise. The management major provides opportunity to gain that expertise, in areas including entrepreneurship and small business management, human resources, leadership, organizational dynamics, business finance, international business, the global economy, and statistics. In this major, you will develop skills in leadership, communication, cooperation, analysis, and strategic action plan implementation. Through case studies, simulations and other learning experiences, you will rely on sound management knowledge and principles acquired earlier to solve real business and organizational problems. The program provides a solid foundation for numerous career options including banking, human resource management, starting and managing a new business, as well as managing existing businesses, not-for-profit, charitable and government organizations.

Year 2		Learning Credits
BUS 2268	Organizational Behaviour	3
BUS 2275	International Business	3
BUS 2278	Industrial and Labour Relations	3
BUS 2285	Advanced Small Business Management	3
BUS 2292	Business Finance	3
BUS 2298	Human Resource Management	3
STS 2250	Statistics	3
Approved electives		9
(See elective lists A and B.)		
		30

MARKETING MAJOR

Analyzing the strategies that make a business successful is the core purpose of the marketing major. In-depth knowledge of the latest business trends, communication tools, concepts, international influences, buyer behavior, and market research are some of the keys to a career as a marketing professional. At Lethbridge College, you'll gain a strong understanding of these areas and benefit from our focus on practical application. The program includes projects with local businesses and organizations, creation of marketing plans, case studies, group presentations and field trips to a variety of area businesses. You will be well prepared for careers in management, retailing, merchandising, market research, advertising, international marketing, either for existing businesses and organizations, or to start your own.

Special note: If you intend to pursue a university degree upon completion of the Business Administration diploma, we strongly recommend that you include STS-2250 (Statistics) in your program.

Year 2		Learning Credits
MKT 2260	International Marketing	3
MKT 2277	Merchandise Administration	3
MKT 2279	Applied Sales	3
MKT 2281	Marketing Logistics	3
MKT 2283	Advertising	3
MKT 2288	Marketing Management	3
MKT 2290	Marketing Research	3
Approved electives		9
(See elective lists A and B)		
		30

GENERAL BUSINESS MAJOR

This major allows significant flexibility in choosing courses, and may be ideal for those planning entrepreneurial careers. In addition to the core courses shown, students may choose their own unique combination of electives from the lists below, ensuring the best possible combination of knowledge and skills.

Special note: If you intend to pursue a university degree upon completion of the Business Administration diploma, we strongly recommend that you include STS-2250 (Statistics) in your program.

Year 2		Learning Credits
BUS 1176	Personal Finance	3
BUS 2285	Advanced Small Business Management	3
BUS 2292	Business Finance	3
BUS 2298	Human Resource Management	3
MKT 2288	Marketing Management	3
Approved electives		15
(See elective lists A and B)		
		30

LIST A - APPROVED BUSINESS ELECTIVES

ACC 2250	Management Accounting I	3
ACC 2251	Management Accounting II	3
ACC 2271	Intermediate Financial Accounting I	3
ACC 2273	Intermediate Financial Accounting II	3
ACC 2278	Computerized Accounting for Management	3
BUS 1176	Financial Planning	3
BUS 1180	Project Management	3
BUS 2267	Database Design	3
BUS 2268	Organizational Behaviour	3
BUS 2275	International Business	3
BUS 2278	Industrial and Labour Relations	3
BUS 2284	Advanced Internet Skills	1.5
BUS 2285	Advanced Small Business Management	3
BUS 2291	Writing a Business Plan	3
BUS 2292	Business Finance	3
BUS 2298	Human Resource Management	3
CPU 2254	Basic Desktop Publishing	3
ECN 2253	Macroeconomics	3
FWK 2250	Field Work	3
IND 2251	Independent Study	1.5
IND 2252	Independent Study	1.5
IST 2250	International Study Tour	3
MGT 2251	Events and Conference Management	3
MKT 2250	Advertising Essentials	3
MKT 2260	International Marketing	3
MKT 2275	E-commerce	3
MKT 2277	Merchandise Administration	3
MKT 2279	Applied Sales	3
MKT 2281	Marketing Logistics	3
MKT 2283	Advertising	3
MKT 2288	Marketing Management	3
MKT 2290	Marketing Research	3
STS 2250	Statistics	3
TAX 2251	Taxation	3
TTC 2251	Tourism	3
*BUS 11XX	Unspecified	3
*BUS 22XX	Unspecified	3
*MKT 11XX	Unspecified	3
*MKT 22XX	Unspecified	3

*Unspecified credits for post-secondary Business and Marketing courses will be evaluated on a case-by-case basis.

Business Administration

LIST B - APPROVED NON-BUSINESS ELECTIVES
(a maximum of 3 credits may be included from List B Approved Non-Business Electives.)

AGR 2286	Agricultural Business Management	3
BIO 1151	Environmental Issues (OL)	3
BLK 1151	Blackfoot Language I	3
HUM 1150	Logic	3
HUM 1155	Ethics (OL)	3
HUM 1180	Introduction to World Religions (OL)	3
HUM 1190	Popular Culture	3
NAT 1155	Introduction to Native American Studies	3
PED 1123	Academic Success Athletics I	1.5
PSC 1161	Introduction to Politics (OL)	3
PSC 1165	Canadian Government	3
PSY 1160	Introduction to Psychology (OL)	3
SGV 1111	Student Government	3
SGV 1112	Student Government	3
SGV 1122	Student Government	6
SGV 2113	Student Government	3
SGV 2114	Student Government	3
SGV 2124	Student Government	6
SOC 1160	Introduction to Sociology (OL)	3
SPN 1150	Introductory Spanish	3

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Business Administration Diploma with designated major.

TRANSFERS
Athabasca University
Graduates of Lethbridge College's Business Administration diploma are eligible to receive two years' credit towards any of the following business degrees at Athabasca University: 3-year Bachelor of Management, 4-year Bachelor of Management (Human Resource Management or Marketing major), Bachelor of Professional Arts (Law & Management Major) or 4-year Bachelor of Commerce (Accounting or e-Commerce major). Diploma graduates will need to complete ten courses for the 3-year B.Mgmt. and twenty courses for the 4-year B.Mgmt. or B.Comm.

It is highly recommended, but not mandatory, that BUS-2292 and STS-2250 are included in your Lethbridge College diploma. Visit www.athabascau.ca for more information.

College of the Rockies
Graduates from the diploma in Business Administration – Accounting, Management, Marketing, or General Business majors are eligible to receive full block transfer into the Bachelor of Business Administration in Sustainable Business Practices degree, provided all other entrance criteria are met and space remains available in the program. Entrance by new students to all programs at College of the Rockies is a first-qualified, first-in basis.

Griffith University, Queensland, Australia
Graduates of Lethbridge College's Business Administration program are eligible to transfer credit towards the completion of a Bachelor Degree at Griffith University, located in Australia. Business Administration Accounting graduates can complete the Griffith's Bachelor of Commerce in three (3) semesters. Business Administration Management, Marketing or General Business graduates can complete a Bachelor of Business in three (3) semesters. Please visit www.griffith.edu.au/credit for more information.

Institute of Technology Carlow, Carlow, Ireland
Graduates from the diploma in Business Administration – Accounting, Management, Marketing, or General Business majors will be accepted for entry into Year 3 of Bachelor (Honours) in Business with options to specialize in Business Management, HRM, Supply Chain Management and International Business. Please note, scholarships may be awarded – please refer to website: www.itcarlow.ie

Institute of Technology Sligo, Sligo, Ireland
Graduates from the diploma in Business Administration – Accounting, Management, Marketing, or General Business majors will complete two semesters in IT Sligo to complete the Bachelor of Business in Business Administration (NFQ Level 7) Bachelor Degree program.

Students who complete the Bachelor of Business in Business Administration (NFQ Level 7) degree may subsequently transfer into the IT Sligo Bachelor of Business (Hon) (Add-On) (NFQ Level 8) degree which they can complete full time (one year) or on-line (two year). Please refer to website: www.itsligo.ie

Okanagan College
Graduates of Lethbridge College's Business Administration –Accounting, Management, Marketing, or General Business diploma program with a minimum GPA of 67% are eligible for admission into the third year of the Bachelor of Business Administration (BBA) degree program.

Royal Roads University
Graduates of Lethbridge College's Business Administration –Accounting, Management, Marketing, or General Business diploma program with a minimum GPA 3.0 are eligible to receive block transfer into the third year of Bachelor of Commerce in Entrepreneurial Management or Bachelor of Business Administration in Sustainability & International Business. Provided all entrance criteria for admissions to RRU are met and space remains available in program.

Business Administration

Robert Gordon University - Aberdeen, Scotland
Graduates of Lethbridge College's Business Administration Management or Marketing diploma programs with a minimum grade point average of 3.0 are eligible for transfer credit towards a B.A. in International Business Management or B.A. Management with Marketing at RGU in Aberdeen, Scotland.

SAIT
Graduates of Lethbridge College's Business Administration Accounting diploma are eligible for admission into the third year of SAIT's Bachelor of Business Administration Accounting (BBA ACCT) degree program. Management diploma are eligible for admission into third year of Bachelor of Business Administration Management (BBAM) or Human Resource Management (BBAH). Marketing diploma are eligible for admission into the third year of Bachelor of Business Administration Marketing Major (BBA MK). Provided all other entrance criteria are met and space is available.*Some bridging courses are required.

University of Calgary
Graduates of a 2-year diploma program will be awarded up to 5 full junior course options

University of Lethbridge
Graduates of Lethbridge College's Business Administration diploma are eligible to receive two years' credit towards the University of Lethbridge's Bachelor of Management degree, provided that a cumulative grade point average of at least 3.0 is achieved in the Lethbridge College diploma program. The exact number of additional required courses varies based on courses taken and the major selected at the University of Lethbridge. Visit www.uleth.ca for further information.

School of Business

Administrative Office Professional | p. 37

lethbridgecollege.ca/programs

Child and Youth Care

Program Office: 403.320.3393 • humanservices@lethbridgecollege.ca

PROGRAM OVERVIEW
The Child and Youth Care program is designed to prepare you to work with children, youth and families who are experiencing difficulties and challenges within their daily lives that have impacted their optimal development. Some will have been exposed to negative life circumstances such as trauma, rejection, abuse, and emotional stress. You will learn to work from a developmental, ecological and strength-based perspective, emphasizing the interaction between persons and their physical, social and cultural environments.

You will gain the knowledge, values and skills to promote, support and strengthen the development of children, youth and their families in a variety of settings such as residential treatment, community-based and youth programs, parent education and family support, family preservation and reunification, early intervention and within a variety of school settings.

Once you graduate from the program, you'll be able to integrate a strength-based developmental and systems perspective in all aspects of child and youth care practice.

CAREER OPPORTUNITIES
Our diploma program in Child and Youth Care will prepare you for employment as a child and youth care professional in a wide variety of settings including:

- Adolescent Psychiatry
- Drop-in Centres
- Family Support
- Foster Care Work
- Group Homes
- Hospitals
- Independent Living Programs
- Recreation & Community Centres
- Residential and Treatment Programs
- Safe Consumption Sites
- Schools
- Women's Emergency Centres
- Young Offender Centres

ADMISSIONS
New students are accepted into the Child and Youth Care program for the Fall (September) term. Students wishing to enroll for the Winter (January) term may take courses in a revised curriculum based on course availability. This admission results in a five term curriculum for the completion of the diploma.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

PRACTICUM BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. Police Information Check, IR Check, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, etc.).

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. Students may complete a PBE in their own communities or nearby areas if possible to arrange. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
CYC 1158	Communications in CYC Practice	3
CYC 1169	Observation, Reporting & Assessment	3
CYC 1173	Foundations and Roles of Child & Youth Care	3
ENG 1150	Composition (OL)	3
HSP 1151	Family Systems and Development (OL)	3
PSY 1170	Human Development Across the Life Span (OL)	3
		18

Year 1 Term II		
CYC 1163	Behaviour Management	3
CYC 1175	Therapeutic Interventions	3
CYC 1178	CYC Clinical Practice I	3
CYC 1180	Counselling Techniques I	3
CYC 1194	Activity Leadership	3
PSY 1179	Adolescent Development (OL)	3
		18

Year 2 Term I		
CYC 2251	Family Support and Intervention	3
CYC 2253	Group Process	3
CYC 2255	CYC Clinical Practice II	6
CYC 2272	Family Violence	3
CYC 2280	Counselling Techniques II	3
		18

Year 2 Term II		
CYC 2260	Mental Health and Substance Abuse in CYC Practices	3
CYC 2269	Case Management and Evaluation	3
CYC 2285	CYC Clinical Practice III	6
		12

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Child and Youth Care diploma.

Child and Youth Care

TRANSFERS

Athabasca University
Diploma graduates are eligible to receive up to 60 credits towards the Bachelor of Professional Arts in Human Services major or the Bachelor of Professional Arts in Governance, Law and Management major at Athabasca University. Diploma graduates are awarded up to 30 transfer credits towards year three or four into the Bachelor of Management degree (Major) at Athabasca University.

BC CYC Consortium
CYC diploma graduates with a B average (3.0 GPA) or higher will receive 60 block transfer credits (30 units in UVIC model) Bachelor of Arts in Child and Youth Care offered at Douglas College, University of Victoria, University of the Fraser Valley, and Vancouver Island University.

Griffith University, Australia
CYC diploma graduates may enter into the fourth semester of the Bachelor of Child and Family Studies, Bachelor of Human Services, or the Bachelor of Social Work degree program. Please visit www.griffith.edu.au/credit for more information.

Institute of Technology Carlow, Carlow Ireland
Graduates from the diploma in Child and Youth Care will be accepted for entry into Year 2 of the Honours Degree in Applied Social Studies – Professional Social Care. Please note, scholarships may be awarded. Please refer to website: www.itcarlow.ie

Lethbridge College
Students who complete the Child and Youth Care diploma are eligible for entry into the Bachelor of Applied Arts in Justice Studies at Lethbridge College. Some bridging courses may be required on an individual basis.

MacEwan University
CYC diploma graduates with a GPA of 2.7 or higher may be eligible to receive up to 60 credits and entry into year three of the Bachelor of Child and Youth Care degree.

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

University of Lethbridge
CYC graduates who have achieved a diploma GPA of 3.0 or higher may be admitted to the University of Lethbridge's Post-Diploma Bachelor of Health Sciences - Addictions Counselling.

School of Human Services

Early Childhood Education	p. 75
Educational Assistant	p. 79

lethbridgecollege.ca/programs

Civil Engineering Technology

Program Office: 403.320.3468 • engineeringtech@lethbridgecollege.ca

PROGRAM OVERVIEW
Civil engineering builds the infrastructure of society. Buildings, homes, cities, roads and bridges are all products of civil engineering. Our intensive two-year diploma program in Civil Engineering Technology will prepare you for a rewarding career in civil engineering technology and construction management.

The first year of the program focuses on engineering fundamentals including topics such as Computer Assisted Drafting (CAD) and land surveying to fluid mechanics, applied physics, and concrete technology.

In the second year, the emphasis is on engineering design and management. This encompasses structural design and detailing, construction methods, environmental technology, municipal/ highway design, estimating and business management. Industry standard computer applications are used in combination with hands-on experiences to culminate in an applied research project. These projects involve data collection, fieldwork, and interaction with engineering technology professionals.

The environmental and ethical dimensions of civil engineering are also considered. While engineers build to improve society, construction has environmental and social costs that must be considered. The classroom, fieldwork and project experience will prepare technologists with skills to balance costs and benefits in the construction process.

A Civil Engineering Technology diploma paves the way for a great career as a technology professional.

CAREER OPPORTUNITIES
- Construction Estimator
- Construction Inspector
- Construction Manager
- Geo-Technologist
- Government / Municipality Engineering Consulting
- Infrastructure Designer
- Materials Testing Technologist
- Roadway Designer
- Structural Designer
- Quality Assurance / Control Technologist

ADMISSIONS
Students are accepted into the Civil Engineering Technology program for the Fall (September) term only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- a minimum grade of 50 percent in Grade 12 math (equivalent to Alberta's Math 30-1) or 60 percent in Grade 12 math (equivalent to Alberta's Math 30-2)
- Grade 11 physics or Grade 12 science

Please note that Grade 12 biology and/or Grade 12 chemistry will not be accepted in lieu of Grade 12 science.

Basic understanding of computer technology such as word processing, copying files; and familiarity working in a Windows-based environment is required.

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

PRIOR LEARNING ASSESSMENT (PLA)
If you have experience working in this field of study, you may be eligible for Prior Learning Assessment (PLA). Please direct your inquiries to the Program Chair.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
CAD 1160	Graphic Communications	3
COM 1164	Technical Communications	3
CON 1162	Engineering Management I	3
EDD 1160	Technical Drawing	1.5
MTH 1150	Engineering Math I	3
SUR 1150	Land Survey I	3
		16.5

Year 1 Term II		
CON 1165	Construction Materials	3
CON 1180	Construction Engineering I	3
ENF 1166	Statics and Strength of Materials	3
ENF 1170	Engineering Properties I	3
MTH 1170	Engineering Math II	3
SUR 1180	Land Survey II	3
		18

Year 2 Term I		Learning Credits
CIV 2256	Civil Software Applications	3
CIV 2257	Environmental Engineering	3
CON 2255	Construction Engineering II	3
CON 2260	Engineering Management II	3
ENF 2250	Fluid Mechanics	3
STS 2260	Statistics and Applied Research I	3
		18

Year 2 Term II		Learning Credits
CIV 2260	Highway Design	3
CIV 2262	Structural Design I	6
CIV 2271	Water Resources Design	3
CIV 2274	Infrastructure Design	3
CIV 2275	Structural Design II	3
RSR 2265	Applied Research II	1.5
		19.5

Year 2 Term III - (OPTIONAL)		
CIV 2298	Work Experience	1.5

Civil Engineering Technology

GRADUATION
Upon successful completion of all program requirements, students are awarded a Civil Engineering Technology diploma.

TRANSFERS
Athabasca University
Graduates are eligible to receive 30 credits towards the three- or four-year Bachelor of Management (Post-Diploma) degree or 30 credits towards the three- or four-year Bachelor of Commerce (Post-Diploma) degree. For more information, please visit www.athabascau.ca.

Camosun College/University of British Columbia
Camosun College in Victoria, BC provides a six-month bridging program leading directly to the third year in Civil Engineering at the University of British Columbia.
For more information, please visit: http://camosun.ca/learn/programs/engineering-bridge/

Lakehead University
Involves one transition summer school followed immediately by entry upon successful completion into the third year Civil Engineering. A fourth year is also required to obtain a degree.
For more information please visit: https://www.lakeheadu.ca/academics/faculties/engineering/college-transfer-program

Lethbridge College
Graduates of Civil Engineering Technology may gain a second diploma in Engineering Design and Drafting Technology with an additional 1 ½ years of study (course scheduling permitting).

Northern Alberta Institute of Technology (NAIT)
Graduates of the Civil Engineering Technology diploma program with a minimum grade point average of B- or 2.7 on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology in Technology Management) degree program. Applicants for transfer of credit under this Agreement shall complete all of the requested application procedures of NAIT including, but not limited to, written statements outlining personal objectives, career goals, letters of reference, work experience and community involvement, and such other information as may be requested and used by NAIT to determine whether the applicant complies with the requirements as set out or intended.

Royal Roads University
Graduates of the Civil Engineering Technology diploma graduates with a GPA of 3.0 or higher are eligible for a block transfer with the appropriate prerequisite qualification into the third year of the Bachelor of Commerce in Entrepreneurial Management at RRU.

University of Alberta
Civil Engineering Technology diploma graduates with a GPA of 3.5 or higher are eligible for up to one year of transfer credit dependent on appropriate grades and program.

For the most current information on transferring to the Faculty of Engineering, please go to: http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx.

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

School of Engineering Technologies

Engineering Design and Drafting Technology	p. 81
Geomatics Engineering Technology	p. 94

lethbridgecollege.ca/programs

Commercial Vehicle Enforcement

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

PROGRAM OVERVIEW
Our Commercial Vehicle Enforcement program can be the key you need to get on the road to a rewarding and meaningful career.

Transportation of goods and passengers by commercial vehicles is an important element in the success of Canadian businesses and industries. Helping commercial vehicle operators to be successful and ensuring our roads and highways remain safe for everyone is the vital role played by Commercial Vehicle Enforcement Officers.

Combine your education or work experience in:
- Law enforcement/criminal justice
- Conservation enforcement

With our Commercial Vehicle Enforcement program and in less than three months, you'll have the education you need to pursue a meaningful and rewarding career as a Commercial Vehicle Enforcement Officer.

This program is also open to those in the transportation industry, such as owners, safety supervisors or other employees. You can benefit by taking some or all of our commercial vehicle courses. Take the same courses used to train Commercial Vehicle Enforcement Officers and stay updated on the latest regulations and laws.

CAREER OPPORTUNITIES
The need for qualified officers is strong. Earning your certificate will greatly increase your chances of employment with commercial vehicle enforcement agencies across Canada, such as:
- Alberta Commercial Vehicle Enforcement Branch
- Saskatchewan Highway Transport Patrol

Please check with your local jurisdictions for their hiring requirements and qualifications.

ADMISSIONS
New students are accepted into the Commercial Vehicle Enforcement program in the Spring term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

MEDICAL REQUIREMENTS
Although no physical requirements are placed on applicants for entry to the program, applicants are required to take a medical examination to ensure that their cardiovascular system is suitable to undertake strenuous exercise.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

		Learning Credits
CJP 1163	Human Relations for Commercial Vehicle Enforcement	3
ENG 1146	Technical Report Writing for Commercial Vehicle Enforcement Officers	3
TRS 1150	Transport Legislation	3
*TRS 1151	Officer Safety	6
OR		
PED 1153	Training & Personalized Fitness (OL)	1.5
TRS 1152	Licensing	3
TRS 1153	Cargo Securement	3
TRS 1155	Weights & Dimensions	3
TRS 1160	Hours of Service Legislation	3
TRS 1165	Transport Law	3
		25.5 or 30

(OL) indicates courses which are also available through Online Learning.

***Note:** Employees of Alberta Justice and Solicitor General must enroll in this course. External applicants and current Criminal Justice students will enroll in the alternative course.

GRADUATION
Upon successful completion of all program requirements, students are awarded a certificate in Commercial Vehicle Enforcement.

School of Public Safety

Police Cadet Training | p. 107

lethbridgecollege.ca/programs

Computer Information Technology

Program Office: 403.320.3213 • cit@lethbridgecollege.ca

PROGRAM OVERVIEW
Success in information technology includes programming skills and much more. Our two-year diploma program in Computer Information Technology gives you the grounding in business, communications and technology that you need in order to manage and build information systems.

Accredited by the Canadian Information Processing Society (CIPS), our intensive, integrated program will show you how information systems actually work. Working in small teams, you'll tackle hands-on projects ranging from trouble-shooting hardware to software development, networking, web development, e-commerce, and information systems management. You will balance these technology skills with course work in business and communications, and we'll give you the opportunity to demonstrate your abilities in practical projects. You will spend time in a workplace-based practicum with an organization of your choice. And, you finish the program with a real-life system project for a real-life client.

Managing information has never been more important and information technology professionals have never been more in demand. With its comprehensive introduction to the industry and its opportunities, our diploma in Computer Information Technology won't just show you how to build an information system – it will show you how to build a career.

CAREER OPPORTUNITIES
- Business and Systems Analyst
- Computer Service Technician
- Database Designer/Developer
- GIS Developer
- Information Systems Project Manager
- IT Support Specialist
- Mobile App Developer
- Network Analyst/Technician
- Programmer Analyst
- Software Developer
- Software Testing Specialist
- Web Developer and Administrator

ADMISSIONS
New students are accepted into the Computer Information Technology program for the Fall (September) term. Students wishing to commence in the Winter (January) term may take courses in a revised sequence based on course availability. This admission results in a five-term curriculum for the completion of the diploma.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

Note: Due to workload in this program, students are encouraged to evaluate their external commitments or consult with an advisor about alternate program sequencing. Students who plan to continue their studies through various university programs may be required to take specific electives. Please see information under "Transfers" for specifics.

A number of physical education courses are allowed in recognition of the need to promote a healthy lifestyle.

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

INDUSTRY SUITABILITY
Prospective students should be aware of the following job-related physical demands: standing or sitting for long periods of time, intense visual concentration, and some lifting and carrying.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
CIT 1152	Computer Hardware Maintenance	3
CIT 1154	Computer Programming I	3
CIT 1157	HTML and Web Publishing	3
ENG 1168	Business Communication *	3
MTH 1152	Mathematics for CIT	3
		15

*The combination of ENG-1156 and PRS-1155 is considered an acceptable alternative for ENG-1168.

Year 1 Term II		
BUS 1170	Introduction to Management	3
CIT 1156	Computer Programming II	3
CIT 1158	Computer Networking I	3
CIT 1163	Database Management Systems	3
CIT 2268	User-Centred Interface Design	3
		15

Year 2 Term I		
ACC 1170	Financial Accounting I	3
CIT 2255	Computer Networking II	3
CIT 2265	Web Programming	3
CIT 2270	IT Integration Seminar	1.5
CIT 2275	Systems Analysis and Design I	3
Approved Elective (One elective must be CIT 2260 or CIT 2269)		3
		16.5

Year 2 Term II		
CIT 2259	Computer Networking III	3
CIT 2262	Operating Systems Theory	1.5
CIT 2263	Introduction to Linux	1.5
CIT 2271	IT Fieldwork	3
CIT 2276	Systems Analysis and Design II	3
MKT 1188	Introduction to Marketing	3
Approved Elective (One elective must be CIT 2260 or CIT 2269)		3
		18

Computer Information Technology

YEAR 2 APPROVED ELECTIVES

		Learning Credits
ACC 1175	Financial Accounting II	3
ACC 2250	Management Accounting I	3
ACC 2271	Intermediate Financial Accounting I	3
ACC 2278	Computerized Accounting for Management	3
ANT 1195	Cultural Anthropology	3
BUS 1166	Business Law	3
BUS 1168	Management Communication	3
BUS 1176	Financial Planning	3
BUS 1177	Entrepreneurship	3
BUS 2268	Organizational Behavior	3
BUS 2275	International Business	3
BUS 2278	Industrial & Labor Relations	3
CIT 2260	Algorithms and Problem Solving	3
CIT 2269	Mobile App Development	3
CMM 1185	The Principles of Animation	3
COM 1155	Customer and Team Relations	1.5
COM 1157	Professional Communication	3
COM 1158	Leadership Communication Skills	1.5
COM 1159	Applied Interpersonal Communication	3
COM 1162	Interpersonal Relationships and Communication (OL)	3
CPU 1165	Designing Spreadsheet Applications	3
DES 1155	Graphic Design	3
ECN 1180	Microeconomics	3
ECN 2253	Macroeconomics	3
HUM 1150	Logic	3
HUM 1155	Ethics (OL)	3
HUM 1158	Creative Problem-Solving	3
HUM 1165	Introduction to Archaeology	3
HUM 1180	Introduction to World Religions (OL)	3
HUM 1190	Popular Culture (OL)	3
IND 2251	Independent Study	1.5
IND 2252	Independent Study	1.5
PED 1160	Weight Training and Exercise	1.5
PED 1162	Intro to Leisure Activities & Sports	1.5
PED 1170	Volleyball	1.5
PED 1173	Basketball	1.5
PRS 1155	Speech (OL)	3
STS 2250	Statistics	3

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Computer Information Technology Diploma.

TRANSFERS
Athabasca University
Graduates are eligible to receive 30 credits towards a three- or four-year Bachelor of Management (Post-Diploma) degree. For more information, please visit www.athabascau.ca.

Griffith University - Queensland, Australia
Graduates of Lethbridge College's Computer Information Technology program are eligible to transfer credit towards the completion of a Bachelor of Information Technology Degree at Griffith University, located in Australia. This degree can be completed at Griffith in three (3) semesters. Please visit www.griffith.edu.au/credit for more information.

University of Lethbridge
Graduates of Lethbridge College's CIT diploma are eligible to receive two years' credit towards a University of Lethbridge Post Diploma Bachelor of Science (Computer Science) degree, provided that a cumulative grade point average of at least 2.5 is achieved in the CIT program. Students will be required to take an additional 20 courses at the U of L. In order to access this program, students are encouraged to complete CIT 2260 at the College.

Graduates of Lethbridge College's CIT diploma are eligible to receive two years' credit towards a University of Lethbridge Post Diploma Bachelor of Management degree, provided that a cumulative grade point average of at least 3.0 is achieved in the CIT program. Students will be required to take an additional 25 courses at the U of L. Please see an Academic Advisor, and visit www.uleth.ca for more information.

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

Conservation Enforcement - Bachelor of Applied Science

Program Office: 403.382.6991 • envisci@lethbridgecollege.ca

PROGRAM OVERVIEW
Experience! That's what makes our Bachelor of Applied Science in Conservation Enforcement special. At Lethbridge College, we have more than 25 years of experience in preparing people for a career in natural resource law enforcement -- and our degree program is the only one of its kind in Canada.

Receive instruction in the natural and physical sciences, renewable resource management and law enforcement techniques through a blend of classroom theory, lab exercises and work site experience. Emphasis is placed on practical learning opportunities where you'll gain valuable hands-on experience in problem wildlife management, investigations, park operations and resource law enforcement.

Your campus learning is reinforced during an eight month directed field study (practicum). This extensive applied learning opportunity is unique to our Bachelor of Applied Science in Conservation Enforcement degree. While on campus, you'll also pursue a simulated resource enforcement violation 'from report to court' where evidence is collected, statements are taken, search warrants are executed, and documents are prepared.

Where will your degree in Conservation Enforcement take you? Graduates of the Bachelor of Applied Science in Conservation Enforcement program have the necessary academic knowledge and applied skills in natural resource law enforcement for successful careers in federal, provincial or municipal agencies, as well as the private sector.

In fact, with Lethbridge College Applied Conservation Enforcement graduates working across Canada, your ambition is the only limit!

CAREER OPPORTUNITIES
- Conservation Officer
- Environmental Investigator/Inspector
- Fish and Wildlife Officer
- Fishery Officer
- Municipal Police Officer
- Park Patrol Officer
- Park Ranger
- Pollution Control Officer
- RCMP Officer
- Resource Management Officer
- Wildlife Investigator

ADMISSIONS
New third-year students, or transfer students with advance standing through completion of a related diploma, are accepted into the program in September of each year for on-campus study.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Students who have completed a Natural Resource Compliance Diploma from Lethbridge College will be accepted directly into the Conservation Enforcement - Bachelor of Applied Science. A minimum GPA of 2.00 or equivalent is required for admission.

Transfer students are required to have a diploma in natural resource management or equivalent, or a related bachelor's degree in an area such as resource management, biology, environmental studies or a similar area of study. Transfer students with related credentials will be accepted into the program after being assessed on an individual basis to determine whether they are required to take bridging courses to meet degree outcomes. A minimum GPA of 2.00 or equivalent is required for admission.

EMPLOYABILITY
- Natural Resource Law Enforcement Officer positions have specific physical requirements such as vision, hearing and physical fitness. The specific requirements differ with each agency. It is the applicant's responsibility to confirm that they meet the requirements of the agencies with which they hope to work.
- Persons with a criminal record may have difficulty competing for jobs as Conservation Enforcement Officers in Canada.
- Employers often require that students hold a valid Standard First Aid or Wilderness First Aid Certificate and/or a CPR Certificate to be eligible for seasonal and/ or permanent employment.
  Students are encouraged to obtain these certificates either prior to entering the program or during the first term.
- A number of workshops and short courses sponsored by various agencies are available on evenings and weekends. Students are encouraged to attend these sessions to enhance their credentials for employment.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

SUPPLIES FOR FIELD STUDIES
Students on field studies are expected to provide their own equipment and supplies. This includes: warm sleeping bag, ground sheet and pad, tent may be required (notification will be given at orientation), back pack for gear, adequate clothing for cold/wet weather, hiking boots, work gloves, cooking and eating gear (may be shared), food, binoculars, digital camera (standard feature), orienteering compass, field equipment vest (recommended), "write-in-the-rain" treated field notebook/ surveyors book, water bottle, sunscreen, safety glasses (3rd year), 30 cm metric steel ruler.

Field studies schedules are dependent on many variables and may require students to participate on weekends. All program field studies require mandatory attendance.

Conservation Enforcement - Bachelor of Applied Science

OTHER REQUIRED SUPPLIES
Available from Lethbridge College Bookstore: Lab coat, safety glasses, Douglas protractor, “write-in-the-rain” treated field notebook/surveyors book, 16X hand lens, dissection kit, metric triangular scale with 1:20, 1:25, 1:50, 1:75, 1:100 and 1:125 graduations.

Available from Sporting, Hardware, and Office Supply Stores: Nexus Type 115 or Silva Ranger compass (with declination adjustment screw), clipboard, 4 GB or higher USB memory stick, chest waders, scientific calculator ($15 - $30 range), 12 or more coloured pencils (pencil crayons), binoculars (8 X 40 or 10 X 50 magnification), 30 cm metric steel ruler.

For additional information concerning supplies, contact the lab coordinator at 403.320.3202, Extension 5594.

CURRICULUM

Years 1 and 2 (See Natural Resource Compliance Diploma)

Year 3 Term I		Learning Credits
CEN 3354	Administrative Procedures	3
CEN 3357	Environmental Compliance Techniques	3
CEN 3369	Environmental Investigations	3

Students focusing on the Environmental Monitoring and Compliance specialty will complete the following courses:

ENV 3381	Environmental Water Quality	3
ENV 3397	Environmental Assessment and Auditing	3

Students focusing on the Fish, Wildlife and Parks specialty will complete the following courses:

CEN 3352	Parks and Protected Areas	3
CEN 3389	Problem Wildlife Management Techniques	3
		15

Year 3 Term II		Learning Credits
CEN 3374	Environmental Law	3
CEN 3379	Case Management	3
CEN 3390	Issues in Resource Enforcement	3
CJP 2287	Crisis Intervention (OL)	3

Students focusing on the Environmental Monitoring and Compliance specialty will complete the following course:

ENV 2280	Contaminant Management	3

Students focusing on the Fish, Wildlife and Parks specialty will complete the following course:

SOC 3355	Cultural Diversity in Conservation Enforcement	3
		15

Year 4

Students are eligible to register in Directed Field Studies courses after successful completion of Year 3. Students must complete a Summer and a Fall term of Directed Field Studies earning a total of 30 learning credits through completion of the following courses:

Required Courses

CEN 4455	Field Enforcement	6
CEN 4460	Community Involvement	3
CEN 4480	Administrative Techniques	3
CEN 4491	Senior Enforcement Project	6
CEN 4496	Independent Study	6

Students focusing on the Environmental Monitoring and Compliance specialty will complete the following courses:

CEN 4470	Habitat Protection	3
CEN 4485	Program Management	3

Students focusing on the Fish, Wildlife and Parks specialty will complete the following courses:

CEN 4465	Hazard Assessment and Public Safety	3
CEN 4475	Problem Wildlife Field Techniques	3

*Indicates field studies

(OL) indicates courses which are also available through Online Learning.

Special note about field studies:
Students are off-campus completing field studies during most of September and April. In the Fall term, field studies are in September, while in the Winter term, field studies are scheduled in April.

Students will be expected to complete non-credit environmental field techniques courses as part of the requirement to complete the program. Courses such as firearms safety, loading and backing trailers, and basic first aid will occur as part of field trip season activities.

Students will be responsible for the fees associated with these courses. Prior valid training possessed by students will be considered for recognition.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Bachelor of Applied Science in Conservation Enforcement degree.

School of Environmental Sciences

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Environmental Assessment and Restoration	p. 84
Natural Resource Compliance	p. 105
Renewable Resource Management	p. 110

lethbridgecollege.ca/programs

Correctional Studies

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

PROGRAM OVERVIEW
Our practical two-year Correctional Studies diploma program provides you with the skills and knowledge for a rewarding career in the field of corrections. This field offers many exciting career opportunities such as working within the community with justice involved youth, or adults or working within youth or adults correctional facilities. Graduates may also find themselves working with victims, victim groups or in early intervention or prevention programs.

Our small classes are taught by instructors with both academic credentials and relevant field experience. You will develop knowledge and skills in key areas including interpersonal communication, criminology, psychology, correctional law, casework methods, diversity, interviewing, offender classification and crisis intervention required to work in this complex and changing field. You will further develop and enhance your critical thinking and reasoning skills during practical exercises. Additionally, students have the opportunity to experience real-world correctional environments with a practicum experience elective.

At the end of the program, you'll understand how you can support people as they strive to make meaningful changes in their live. Most importantly, you will have the knowledge and skills required that will allow you to make meaningful contributions within any correctional related setting. The diploma in Correctional Studies is an excellent starting point for a rewarding and challenging career.

All courses in the Correctional Studies diploma program are available through Online Learning.

CAREER OPPORTUNITIES
Your Correctional Studies diploma will prepare you for work throughout the criminal justice system. Examples are:
- Federal Correctional Officer
- Halfway house Counsellor
- Provincial Correctional Officer
- Youth Worker
- Victim Services Worker

ADMISSIONS
New students are accepted into the Correctional Studies program in the Fall (September) and Winter (January) terms for on-campus and online study and also in the Spring (May) term for online study.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

Applicants are advised they will be required to undergo a Criminal Record Check prior to enrolling in the practicum. The existence of a criminal record may affect practicum placement and future employment prospects. The agencies reserve the right to determine who is considered a suitable candidate.

MEDICAL REQUIREMENTS
Although no physical requirements are placed on applicants for entry to the program, applicants should ensure through a medical examination that their cardiovascular system is suitable to undertake fitness-related exercise.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
CJP 1160	Introduction to the C.J. System (OL)	3
COM 1159	Applied Interpersonal Communication (OL)	3
ENG 1175	Writing in the Public Safety Industry (OL)	3
PED 1157	Health, Wellness and Personal Fitness (OL)	1.5
PRS 1172	Effective Presentation & Speech (OL)	3
SOC 1160	Introduction to Sociology (OL)	3
		16.5

Year 1 Term II		
CJP 1183	Diversity Issues in Criminal Justice (OL)	3
COR 1152	Fundamentals of Corrections (OL)	3
COR 1153	Career Development Strategies (OL)	1.5
COR 1154	Suicide Prevention (OL)	1.5
COR 1180	Youth in the Justice System (OL)	3
LAW 1172	Law for Corrections (OL)	3
PSY 1160	Introduction to Psychology (OL)	3
		18

Year 2 Term I		
CJP 2281	Conflict Management (OL)	3
COR 2253	Correctional Classification (OL)	3
COR 2262	Drugs in Corrections (OL)	3
COR 2290	Correctional Practices (OL)	3
SOC 2255	Offenders with Special Needs (OL)	3
Approved Elective		3
		18

Year 2 Term II		
CJP 2278	Criminology (OL)	3
COR 2277	Corrections Administration (OL)	3
COR 2279	Correctional Casework and Counselling (OL)	3
COR 2287	Crisis Resolution (OL)	3
Approved Elective		3
		15

Correctional Studies

Choose electives from the following list. Note: If it is your intention to pursue a career in a public safety organization which requires fitness testing for employment purposes, it is highly recommended you take the PED2255 (Physical Readiness Training for Public Safety) elective.

BUS 1170	Introduction to Management	3
BUS 2278	Industrial and Labour Relations	3
CJP 1178	Individuals with Disabilities (OL)	3
CJP 2280	Intro to Commercial Vehicle Enforcement (OL)	3
FWK 2272	Corrections Practicum I (OL)	3
FWK 2273	Corrections Practicum II (OL)	3
HUM 1150	Logic	3
HUM 1180	Introduction to World Religions (OL)	3
HUM 1190	Popular Culture	3
HUM 1195	Cultural Anthropology	3
NAT 1155	Introduction to Native American Studies	3
PED 2255	Physical Readiness Training for Public Safety	3
PSY 1170	Human Development across the Lifespan (OL)	3
PSY 1171	Child Growth and Development (OL)	3
PSY 1177	Psychology of Aging (OL)	3
PSY 1179	Adolescent Development (OL)	3
PSY 2253	Child Psychopathology (OL)	3
PSY 2260	Abnormal Psychology (OL)	3
PSY 2270	Introduction to Personality Theory	3
PSY 2275	Forensic Psychology	3
PSY 2280	Social Psychology	3
PSY 2290	Brain and Behaviour	3
SOC 1167	Sociology of Aging (OL)	3
SOC 1170	Introduction to Social Work	3
SOC 2276	Sexuality	3

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a diploma in Correctional Studies.

Note: Employing agencies may have additional requirements such as a valid driver's license, Standard First Aid and CPR. Learners are encouraged to maintain their credentials in these areas so that they are current at time of graduation.

TRANSFERS
Athabasca University
Graduates of the Correctional Studies - diploma are eligible to receive up to 60 credits towards the Athabasca University Bachelor of Professional Arts (BPA) in Human Services , Bachelor of Professional Arts (BPA) in Criminal Justice or a Bachelor of Professional Arts in Governance, Law and Management.

Griffith University, Australia
Correctional Studies diploma graduates may enter into the third semester of the Bachelor of Criminology and Criminal Justice degree at Griffith University, Mt. Gravatt campus. Please visit www.griffith.edu.au/credit for more information.

Lethbridge College
Graduates of the two-year Correctional Studies diploma who choose to enter the Bachelor of Applied Arts - Justice Studies degree program at Lethbridge College will get two full years of credit towards the degree. Courses are provided on campus or through distributed/online learning. Details regarding this program can be found in this calendar and on the Lethbridge College website.

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

School of Justice Studies

Criminal Justice - Policing	p. 69
Justice Studies - Bachelor of Applied Arts	p. 98

lethbridgecollege.ca/programs

Criminal Justice - Policing

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

PROGRAM OVERVIEW
At Lethbridge College, we have over 45 years' experience preparing people with the skills and knowledge they need to succeed in a policing or related justice career. Our practical, two-year diploma program in Criminal Justice will prepare you for a satisfying career in this field.

You will have the opportunity to learn in small classes and learn from instructors with relevant professional experience and academic qualifications. Our courses provide a solid foundation to topics including criminal and procedural law, introduction to the criminal justice system, psychology and criminology. You will obtain hands-on experience in important areas like interviewing, report writing, note taking, and investigative techniques.

We will encourage you to take advantage of a wide range of practicum opportunities. You can test your skills in the workplace with practicums in policing, security, corrections, and other related justice fields. You will leave the program with a comprehensive understanding of the criminal justice system and a valuable range of practical skills and abilities. If you have an interest in justice, policing could be the field for you.

All courses in the Criminal Justice-Policing diploma program are available through Online Learning.

CAREER OPPORTUNITIES
There is a growing demand for trained police personnel. Your diploma in Criminal Justice will prepare you for a wide range of employment opportunities, including work with:

- Emergency Services
- Federal Enforcement Agencies such as Royal Canadian Mounted Police, Canada Border Services
- Municipal Police Services
- Provincial Enforcement Agencies
- Provincial Police Services
- Provincial Protection Agencies
- Security Agencies

ADMISSIONS
New students are accepted into the Criminal Justice - Policing program in the Fall (September) and Winter (January) terms for on-campus and online study and also in the Spring (May) term for online study.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

NON-ACADEMIC REQUIREMENTS
Applicants are required to review and acknowledge completion of an online information package relating to the entry/suitability requirements for a career in law enforcement.

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

Applicants are advised they will be required to undergo a Criminal Record Check prior to enrolling in the practicum. The existence of a criminal record may affect practicum placement and future employment prospects. The agencies reserve the right to determine who is considered a suitable candidate.

MEDICAL REQUIREMENTS
Although no physical requirements are placed on applicants for entry to the program, applicants should ensure through a medical examination that their cardio-vascular system is suitable to undertake strenuous fitness related exercise.
In addition, applicants are advised to undergo eyesight/colour vision testing for compatibility with the requirements of potential future employers.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
CJP 1159	Ethics and Critical Thought (OL)	3
CJP 1160	Introduction to the CJ System (OL)	3
COM 1165	Public Safety Communication & Interpersonal Relationships (OL)	3
ENG 1175	Writing in the Public Safety Industry (OL)	3
LAW 1167	Criminal Procedural Law (OL)	3
PED 1163	Health and Wellness I for Public Safety Careers (OL)	3
		18

Year 1 Term II		
CJP 1157	Preliminary Response and Investigation (OL)	3
CJP 1185	Diverse Populations in Public Safety (OL)	3
CJP 1188	Applied English & Investigative Writing (OL)	3
LAW 1176	Criminal Offences (OL)	3
SOC 1160	Introduction to Sociology (OL)	3
Approved Elective		3
		18

Criminal Justice - Policing

Year 2 Term I

CJP 2281	Conflict Management (OL)	3
CJP 2288	Investigative Techniques (OL)	3
COM 2275	Interviewing Methods (OL)	3
LAW 2254	Applied Law (OL)	3
PSY 1160	Introduction to Psychology (OL)	3
Approved Elective		3
		18

Year 2 Term II

CJP 2278	Criminology (OL)	3
CJP 2287	Crisis Intervention (OL)	3
CJP 2293	Organizational Awareness in Public Safety (OL)	3
LAW 2264	Courtroom Procedures (OL)	3
PED 2254	Health and Wellness II for Public Safety Careers (OL)	3
		15

Approved Electives:

CJP 2252	Criminal Justice Practicum (OL)	3
CJP 2280	Intro to Commercial Vehicle Enforcement (OL)	3
CJP 2294	Specialized Policing (OL)	3
CJP 2295	Traffic (OL)	3
CJP 2296	Career Preparation for Public Safety	3
COR 2262	Drugs in Corrections (OL)	3

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all requirements, students are awarded a diploma in Criminal Justice - Policing.

Note: Employing agencies have additional hiring requirements such as a valid driver's license, Standard First Aid and CPR. Learners are strongly encouraged to obtain and maintain their credentials in these areas to ensure employment qualifications are met.

TRANSFERS
Athabasca University
Graduates of the Criminal Justice - Policing diploma are eligible to receive up to 60 credits towards the Athabasca University Bachelor of Professional Arts (BPA) in Human Services , Bachelor of Professional Arts (BPA) in Criminal Justice or a Bachelor of Professional Arts in Governance, Law and Management.

Griffith University, Australia
Criminal Justice - Policing diploma graduates may enter into the fourth semester of the Bachelor of Criminology and Criminal Justice degree at Griffith University, Mt. Gravatt campus. Please visit www.griffith.edu.au/credit for more information.

Lethbridge College
Graduates of the two-year Policing Diploma may choose to enter the Bachelor of Applied Arts in Justice Studies program at Lethbridge College. Courses are provided on campus or through Online Learning.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

School of Justice Studies

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Justice Studies - Bachelor of Applied Arts	p. 98

lethbridgecollege.ca/programs

Culinary Careers

Program Office: 403.320.3456 • culinary@lethbridgecollege.ca

PROGRAM OVERVIEW
Do you enjoy a fast paced social environment? Get on the fast track to a successful and exciting vocation with our Culinary Careers diploma.

With a compressed academic schedule, you can earn your diploma in 16 months and get started on your career path faster. Starting with a foundation in culinary skills and sanitation and safety, you will move through a comprehensive curriculum that lets you learn in a fast, real world environment. You will prepare meals for real customers and demonstrate your new found skills in practical exercises.

This program is designed to provide you with a comprehensive, practical skill base in the concepts of professional cooking, some techniques in menu creation and dining room cuisine. Our hands-on approach provides you with the knowledge you will need to gain successful employment in the food service/hospitality industry.

Training is comprised of four 16-week sections as follows:
- Dining Room Cuisine
- Introduction and Restaurant Production Techniques
- Paid Industry Placement
- Sweet and Savoury Techniques

We provide a flexible approach to start dates for your dining room cuisine term, giving you the opportunity to derive the greatest benefits possible from your paid industry placement experience.

With this combination of classroom theory and extensive hands-on experience, it's no surprise that the Lethbridge College Culinary Careers graduates have achieved a 100% employment rate.

CAREER OPPORTUNITIES
Lethbridge College graduates are employed throughout Canada and abroad in a variety of culinary opportunities including fine restaurants, hotels, cruise ships, catering companies, flight kitchens, hospitals, care facilities, and convention centres. Opportunities also exist to own and operate your own restaurant or branch out into marketing and product development.

Recent graduates have found employment in the following roles: baker, banquet chef, banquet cook, business owner, caterer, chef, chef de partie, corporate chef, entrepreneur, executive chef, food and beverage manager, food sales representative, instructor, line cook, prep cook, and sous chef.

ADMISSIONS
New students are accepted into the Culinary Careers program for the Fall (September) term with a late August program start date. New students are also accepted in the Winter (January) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Applicants to this program do not require a high school diploma; however, they must satisfy the following specific course requirements (or equivalencies):
- Grade 10 English
- Grade 10 math

NON-ACADEMIC REQUIREMENTS
All students in the Culinary Careers diploma program must follow the sanitation, hygiene and safety practices standard to the industry and present themselves in the following condition whenever entering any of the food service labs: Students must be clean shaven (moustaches are acceptable), hair must be clean and controlled. Students wear a white uniform, chef hat, apron, and approved footwear.

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

MEDICAL REQUIREMENTS
It is strongly recommended that applicants update or complete a personal medical profile and their immunization records prior to entry into the program and employment.

Applicants may be asked to complete a follow-up medical at the discretion of the College Health Centre.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

A uniform deposit and laundry fees are also required.

CURRICULUM

Year 1		Learning Credits
COM 1137	Communication Skills	1.5
CUL 1115	Management Controls	3
CUL 1116	Breakfast Soups and Pantry	3
CUL 1117	Vegetables and Farinaceous	3
CUL 1118	Production Skills	6
CUL 1120	Meat Cutting and Meat Cookery	6
CUL 1121	Bakeshop	6
CUL 1122	Stocks and Sauces	3
CUL 1127	Culinary Careers Introduction	3
		34.5

Year 2		Learning Credits
CUL 2201	Food Service Management and Saucier	6
CUL 2207	Lunch Express Entremetier and Nutrition	6
CUL 2208	Buffets and Bakery	6
CUL 2212	Evening Dining and Preparing Proteins	6
CUL 2213	Gala Banquets	3
CUL 2218	Industry Work Placement	1.5
		28.5

Important Notes:
1. Diploma students are eligible to apply and write (for a fee) their government apprenticeship equivalency exams after Year 1 and Year 2 respectively. This will lead them to qualify to apply and continue on into their third year apprenticeship with the option to write their Red Seal examination when their apprenticeship has been successfully completed.
2. Please be advised that the Culinary Careers program start and end dates, as well as exams, fall outside of the dates found in the Academic Schedule.

Culinary Careers

GRADUATION
Upon successful completion of all program requirements, students are awarded a Culinary Careers diploma.

GRADUATION REQUIREMENTS
In order to receive your diploma, students must have an overall combined (practical and theoretical) average of 80%.

Students, not already employed, will be required to attend Hospitality Recruitment Day where employers come to the College to interview for summer work placements. Past students in our program have achieved 100 percent employment. Summer work place locations vary from resort areas along the Rocky Mountains to local hotels, restaurants, care facilities and catering companies.

Our 16-week dining room cuisine section starts after the Labour Day long weekend each year and again at the beginning of January each year. Our culinary department has an excellent association with over 50 employers in Alberta and further afield who have regularly offered paid employment to our culinary students.

School of Culinary Arts

Baker Apprenticeship	p. 43
Cook Apprenticeship	p. 43

lethbridgecollege.ca/programs

Digital Communications and Media

Program Office: 403.320.3468 • digitalcomm@lethbridgecollege.ca

PROGRAM OVERVIEW
At a time when information and entertainment is shared through a myriad of delivery methods, our Digital Communications and Media two-year diploma program prepares you for a career in an evolving world. Select from one of two streams – Digital Journalism or Media Production and Advertising – and you'll find yourself on the leading edge of today's communications field. No matter how it's delivered, content and how we work with it is the key to our unique program.

Students in both streams will focus on three areas when working with content: its creation; presentation, including visual or audio production techniques; and promotion, including advertising and public relations. The intensity of your focus in each area will depend on the stream you follow.

Digital Journalism embraces new technologies, the Internet and social media to reach audiences. You can expect hands-on training both behind and in front of the camera, the microphone, the mobile device and online as you learn to create news content that can be delivered in various ways.

Media Production and Advertising will teach you how to take great ideas and share them effectively with the world. You've got something to say, and we'll show you how to deliver creative content through online, published, video and audio formats.

Each course in the program offers you a high level of engagement and flexibility that encourages the entrepreneurial spirit common in today's media. Through a mix of teaching methods, you will be trained to conduct research, create compelling stories, meet deadlines, and present it all through the most current delivery methods.

Finally, you will take the skills you've acquired and enhance them through a 150-hour practicum experience within the industry. Learn in the field working with professionals who will mentor you through the course.

Successfully completing Digital Communications and Media will prepare you for a career in an exciting field. Our graduates can be found working with companies like Global TV, CTV, Shaw-TV, a host of Canadian daily and weekly newspapers, magazines and corporations. Some with an adventurous spirit have staked out their own careers freelancing around the world.

CAREER OPPORTUNITIES
Your diploma in Digital Communications and Media will prepare you for a wide range of positions working independently or as part of an organization. These careers include:

- Digital/Broadcast Journalist
- Graphic and Information Design
- Photographer/Videographer
- Magazine/Newspaper Content Creator
- Marketing and Advertising
- Media Production Company Owner
- Media/Public Relations
- Radio Host/Producer/Scriptwriter
- Social Media Content Manager
- Story Editor
- Video Editor
- Video Producer/Director/Scriptwriter

ADMISSIONS
New students are accepted into the Digital Communications and Media program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM
Students will share a common first year in the Digital Communications and Media program. This will prepare them for the second year and the requirement for them to select a specialized stream from either Digital Journalism or Media Production and Advertising.

Year 1 Term I		Learning Credits
DCM 1150	Research & Writing for Digital Media	3
DCM 1152	Introduction to Communications	3
DCM 1153	Communication Process	3
DCM 1165	Visual Media	3
DCM 1170	Production Software	1.5
DCM 1171	Digital Audio	1.5
		15

Year 1 Term II		
DCM 1154	Public Relations	3
DCM 1157	Advertising & Marketing for Media	3
DCM 1159	Media Law and Ethics	3
DCM 1163	Broadcast Writing and Producing	3
DCM 1168	Digital Reporting and Publishing	3
		15

Media Production and Advertising Stream

Year 2 Term I		Learning Credits
DCM 2270	Media Writing I	3
DCM 2271	Media Sales and Promotion	3
DCM 2272	Broadcast Programming & Production	3
DCM 2273	Digital Graphic Design	3
DCM 2274	Media Presentation	3
		15

Year 2 Term II		
DCM 2260	Media Entrepreneurship & Freelance	3
DCM 2275	Media Writing II	3
DCM 2276	Campus Media	3
DCM 2277	Digital Production	6
		15

Year 2 Term III		
DCM 2280	Practicum	3
		3

Digital Communications and Media

Digital Journalism Stream

Year 2 Term I		Learning Credits
DCM 2250	New Reporting & Data Journalism I	3
DCM 2251	Feature Coverage I	3
DCM 2252	News Production I	6
DCM 2253	On-Air Presentation I	3
		15
Year 2 Term II		
DCM 2254	News Reporting & Data Journalism II	3
DCM 2255	Feature Coverage II	3
DCM 2256	News Production II	3
DCM 2257	On-Air Presentation II	3
DCM 2260	Media Entrepreneurship & Freelance	3
		15
Year 2 Term III		
DCM 2280	Practicum	3
		3

GRADUATION
Upon successful completion of the program, students are awarded a diploma in Digital Communications and Media.

TRANSFERS
Griffith University, Australia
Graduates of Lethbridge College's DCM Digital Journalism stream are eligible for admissions to receive transfer credit towards the completion of a Bachelor of Journalism or Bachelor of Public Relations and Communication. Graduates of Media Production and Advertising stream are eligible for admissions to receive transfer credit towards the completion of a Bachelor of Public Relations and Communication. Please contact credit@griffith.edu.au for more information.

Red Deer College
The Applied Degree in Motion Picture Arts at Red Deer College enables students who have completed two years of related post-secondary studies (or equivalent) to expand and apply their training to the rapidly growing motion picture, television and multimedia industries. The program has two streams: Production Stream and the Acting Stream. Subject to admission requirements. Please contact creativearts@rdc.ab.ca for more information.

Royal Roads University
Graduates from the Digital Communications and Media diploma are eligible for full block transfer into the third year of the Bachelor of Arts in Professional Communication, provided all appropriate prerequisite qualifications and all other entrance criteria are met as per program admission requirements (refer to Royal Roads website: www.royalroads.ca) and space remains available in the program. Entrance to all programs at Royal Roads University is on a competitive basis.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

School of Media and Design

Architectural Animation Technology	p. 47
Interior Design Technology	p. 97
Multimedia Production	p. 103
Virtual and Augmented Reality	p. 116

lethbridgecollege.ca/programs

Early Childhood Education

Program Office: 403.320.3393 • humanservices@lethbridgecollege.ca

PROGRAM OVERVIEW
Learning through play is central to the healthy development of young children. At Lethbridge College, we have over 20 years of experience showing people how to use art, music and play as key elements in early childhood education. Our flexible one-year certificate and two-year diploma programs in Early Childhood Education (ECE) will give you a comprehensive introduction to child growth, behaviour and development, as well as development through play. You'll also learn about health, nutrition and safety.

Our flexible delivery system may allow you to take courses on-campus or online. We encourage you to develop your abilities in practicum work, focusing on children from birth to six years old. Try out new practices in the ECE demonstration program and develop techniques, materials and resources in our fully equipped curriculum lab.

In fact, your certificate or diploma in Early Childhood Education will give you more than a practical grounding in child development through play. It gives you the knowledge, experience and perspective you need for an enjoyable, successful career working with young children who are developing typically or have special needs.

CAREER OPPORTUNITIES
- Child Care Centres
- Early Learning Programs
- Family Group Care Programs
- Kindergartens
- Parenting Centres
- Preschool Programs
- Recreational Facilities
- Schools

ADMISSIONS
New students are accepted in the Early Childhood Education certificate program for on-campus delivery for the Fall (September) term. Students wishing to enroll for the Winter (January) term may take courses in a revised curriculum based on course availability. This admission may result in a three term curriculum for the completion of the certificate. Courses are also open on an individual basis for part-time study.

Students completing the certificate or diploma program through online study are accepted for terms beginning Fall (September), Winter (January) or Spring (May). Students choosing this route must contact the ECE program to plan their program.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

Applicants are required to have successfully completed a one-year Early Childhood Education certificate or equivalent from a recognized college, in order to enter the Early Childhood Education diploma program.

PRACTICUM BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. Police Information Check, IR Check, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, etc.).

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. Students may complete a PBE in their own communities or nearby areas if possible to arrange. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

PRIOR LEARNING ASSESSMENT
If you have experience working in this field of study, you may be eligible for Prior Learning Assessment (PLA). Please direct your inquiries to the ECE program.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

CURRICULUM

CERTIFICATE

Year 1 Term I		Learning Credits
ECE 1150	Observation and Documentation in ECE (OL)	1.5
ECE 1155	Introduction to Early Childhood Education (OL)	3
ECE 1156	Development through Play (OL)	3
ECE 1180	Practicum I (OL)	1.5
ENG 1150	Composition (OL)	3
PSY 1171	Child Growth and Development (OL)	3
		15

Year 1 Term II		
ECE 1151	Health, Nutrition & Safety (OL)	3
ECE 1154	Guiding Children's Behaviour (OL)	3
ECE 1162	Creative Experiences I (OL)	3
ECE 1168	Children's Outdoor Play (OL)	3
ECE 1181	Practicum II (OL)	3
PSY 1191	The Developing Brain (OL)	3
		18

Early Childhood Education

DIPLOMA
(Available Online Learning Only)

Year 2		Learning Credits
ECE 2250	Pedagogical Documentation (OL)	3
ECE 2254	Child, Family and Community (OL)	3
ECE 2255	School-aged Programming (OL)	3
ECE 2256	Pedagogical Leadership	3
ECE 2260	Infant and Toddler Programming (OL)	3
ECE 2262	Creative Experiences II (OL)	3
ECE 2263	Creative Experiences III (OL)	3
ECE 2264	Pre-school Programming (OL)	3
ECE 2280	Practicum III (OL)	3
ECE 2281	Practicum IV (OL)	3
		30

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of Year 1 requirements, students are awarded an Early Childhood Education certificate.

Upon successful completion of Year 2 requirements, students are awarded an Early Childhood Education diploma.

TRANSFERS
Algonquin College
Applicants with an ECE diploma or ECE equivalency must have an overall average of 75% from the ECE diploma program and have successfully completed the three mandatory bridging courses (Foundations of Social Development, Working with Adults, Legislation and Ethics in Family Services). Applicants meeting these requirements may be admitted to year 3 of the Bachelor of Early Learning and Community Development program. For more information, please contact Algonquin College directly. http://www.algonquincollege.com/healthandcommunity/program/bachelor-of-early-learning-and-community-development/

Athabasca University
Diploma graduates may receive up to two years' credit toward Athabasca University's Bachelor of Professional Arts - Human Services major.

Institute of Technology Carlow, Carlow, Ireland
Graduates from the diploma in Early Childhood Education will be accepted for entry into Year Two of the Honours Degree in Early Childhood Education and Care. Please note, scholarships may be awarded – please refer to website: www.itcarlow.ie

Lakeland College
Graduates from the certificate in Early Childhood Education are eligible for admission directly into Year Two of Lakeland College's Early Learning and Child Care diploma program.

Medicine Hat College
Graduates from the certificate in Early Childhood Education are eligible for admission directly into Year 2 of Medicine Hat College's Early Learning and Child Care diploma program.

University of Alberta
ECE graduates may receive up to 33 credits towards the University of Alberta's Bachelor of Science Human Ecology (Family Ecology major/Child and Youth Studies minor).

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

School of Human Services

Child and Youth Care	p. 58
Educational Assistant	p. 79

lethbridgecollege.ca/programs

Ecosystem Management – Bachelor of Applied Science

Program Office: 403.382.6991 • envisci@lethbridgecollege.ca

PROGRAM OVERVIEW
The Bachelor of Applied Science degree in Ecosystem Management prepares graduates for exciting work in the fields of environmental management and restoration, and fish and wildlife management. This credential was designed in consultation with environmental industry partners and builds on a diploma in environmental sciences, resource management, or environmental assessment and restoration (or equivalent). The program will integrate applied field and lab skills into a framework of theoretical studies and culminate in a capstone learning experience.

The Bachelor of Applied Science degree in Ecosystem Management is a unique and in-demand credential in the Albertan and western Canadian post-secondary sectors. Key attributes that differentiate this degree from traditional bachelors' degrees include a curriculum strongly focused on industry relevant technical and field skills, environmental science concentrations that are unique to the system, and interdisciplinary coursework. In addition, students will be required to acquire non-credit certifications in various environmental field techniques (e.g. H2S Alive, water craft operation, small engine repair, electro-fishing, WHMIS, first aid, etc.).

ADMISSIONS
New third-year students, or transfer students with advance standing through completion of a related diploma are accepted into the program in September of each year for on-campus study.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Students who have completed either the Environmental Assessment and Restoration or the Renewable Resource Management diplomas from Lethbridge College will be accepted directly into the Ecosystem Management – Bachelor of Applied Science program. A minimum GPA of 2.00 is required for admission.

Transfer students are required to have a diploma in Environmental Sciences or equivalent, or a related bachelor's degree in an area such as Resource Management, Biology, Environmental Studies or a similar area of study. Transfer students with related credentials will be accepted into the program after being assessed on an individual basis to determine whether they are required to take bridging courses to meet degree outcomes. A minimum GPA of 2.00 is required for admission.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

SUPPLIES FOR FIELD STUDIES
Students on field studies are expected to provide their own equipment and supplies. This includes: warm sleeping bag, ground sheet and pad, tent may be required (notification will be given at orientation), back pack for gear, adequate clothing for cold/wet weather, hiking boots, work gloves, cooking and eating gear (may be shared), food, binoculars, digital camera (standard feature), orienteering compass, field equipment vest (recommended), "write-in-the-rain" treated field notebook/surveyors book, water bottle, sunscreen, safety glasses (3rd year), 30 cm metric steel ruler.
Field studies schedules are dependent on many variables and may require students to participate on weekends. All program field studies require mandatory attendance.

OTHER REQUIRED SUPPLIES
Available from Lethbridge College Bookstore: Lab coat, safety glasses, Douglas protractor, "write-in-the-rain" treated field notebook/surveyors book, 16X hand lens, dissection kit, metric triangular scale with 1:20, 1:25, 1:50, 1:75, 1:100 and 1:125 graduations.

Available From Sporting, Hardware, and Office Supply Stores: Nexus Type 115 or Silva Ranger compass (with declination adjustment screw), clipboard, 4 GB or higher USB memory stick, chest waders, scientific calculator ($15 - $30 range), 12 or more coloured pencils (pencil crayons), binoculars (8 X 40 or 10 X 50 magnification), 30 cm metric steel ruler.

For additional information concerning supplies, contact the lab coordinator at 403.320.3202, Extension 5594.

CURRICULUM

Years 1 and 2:
See the Environmental Assessment and Restoration diploma or Renewable Resource Management diploma.

Year 3 Term I		Learning Credits
ENV 3372	Environmental Policy	3
ENV 3381	Environmental Water Quality	3
*ENV 3397	Environmental Assessment and Auditing	3

Students focusing on the Environmental Management and Restoration concentration will complete the following courses:

ENV 3383	Environmental Physics	3
GEO 3380	Hydrology	3

Students focusing on the Fish and Wildlife Management concentration will complete the following courses:

*RRM 3368	Wildlife Field Techniques	3
*RRM 3369	Fisheries Management Techniques	3
		15

Ecosystem Management – Bachelor of Applied Science

Year 3 Term II

GEO 3376	Advanced Geographic Information Systems	3
HUM 3370	Environmental Ethics	3
STS 3355	Inferential Statistics	3

Students focusing on the Environmental Management and Restoration concentration will complete the following courses:

CHM 4455	Analytical Chemistry	3
*GEO 3382	Contaminant Hydrogeology	3

Students focusing on the Fish and Wildlife Management concentration will complete the following courses:

BIO 3350	Comparative Animal Biology	3
*RRM 4463	Population Ecology and Management	3
		15

Year 4 Term I

BIO 3352	Applied Biotechnology	3
ENV 3355	Environmental Quality	3
ENV 4450	Senior Project I	3

Students focusing on the Environmental Management and Restoration concentration will complete the following courses:

ENV 4452	Contaminated Site Management	3
*RRM 4454	Restoration Ecology	3

Students focusing on the Fish and Wildlife Management concentration will complete the following courses:

BIO 4462	Mammalogy	3
*RRM 4460	Species at Risk Management	3
		15

Year 4 Term II

ENV 4451	Senior Project II	3
GEO 3383	Geomorphology	3
RRM 3350	Integrated Resource Management	3

Students focusing on the Environmental Management and Restoration concentration will complete the following courses:

CHM 4456	Ecotoxicology	3
*ENV 4453	Stream Reclamation and Remediation	3

Students focusing on the Fish and Wildlife Management concentration will complete the following courses:

BIO 4461	Field Ornithology	3
*GEO 4464	Applied Limnology	3
		15

*Indicates courses with a field study component.

Note: Students will be expected to complete non-credit environmental field techniques courses as part of the requirement to complete the program. Courses such as ATV operations, H2S Alive, small engine repair, electro-fishing, etc. will occur as part of field trip season activities. Students will be responsible for the fees associated with these courses. Prior valid training possessed by students will be considered for recognition.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Bachelor of Applied Science in Ecosystem Management degree.

School of Environmental Sciences

Conservation Enforcement	p. 65
Environmental Assessment and Restoration	p. 84
Natural Resource Compliance	p. 105
Renewable Resource Management	p. 110

lethbridgecollege.ca/programs

Educational Assistant
(Available Online Delivery Only)

Program Office: 403.320.3393 • humanservices@lethbridgecollege.ca

PROGRAM OVERVIEW
Our innovative and very accessible Educational Assistant program will give you the skills you need to help students reach their full educational potential.

If you enjoy working with children and adolescents and would like to help educators provide a healthy learning environment, this is the profession for you. You can begin studying for this rewarding career in schools and educational settings full-time and part-time through online learning.

We give you a comprehensive, practical introduction to topics ranging from the role of the Educational Assistant, assisting with language arts/math, applied behavioural analysis and multiculturalism. Our diploma topics include how to work with speech and language problems, sensory impairments, behaviour disorders, and children with English as a second language. You'll also spend time in field placements, applying your skills and abilities in a real world environment. At the end of the program, you'll have a valuable combination of theory and hands-on experience preparing you to work in a wide range of educational settings. Become an Educational Assistant and experience the satisfaction of helping children with a range of exceptionalities overcome obstacles and achieve their full learning potential.

CAREER OPPORTUNITIES
Your expertise will be in high demand and employment opportunities include:
- Before & After School Programs
- Elementary, Middle and High Schools
- Kindergartens & Preschools
- Recreation and Community Centres
- Respite Care to Parents of Children with Special Needs
- School Lunch Programs
- Summer Camps and Summer Recreation Programs for Children with Special Needs

ADMISSIONS
Students are accepted into the Educational Assistant program for the Fall (September), Winter (January), or Spring (May) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Applicants applying to the Educational Assistant diploma are required to have successfully completed a one-year Educational Assistant certificate or equivalent from a recognized college in order to enter the Educational Assistant diploma program.

PRACTICUM BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. Police Information Check, IR Check, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, etc.).

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. Students may complete a PBE in their own communities or nearby areas if possible to arrange. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

NOTE: Online Learning students should consult an Academic Advisor (403.320.3200) to create a schedule. Certification courses are offered at multiple times per year. Diploma courses are timetabled so students can graduate in one calendar year three terms. A certificate in Educational Assistance from an accredited college is necessary for entrance into the Diploma year.

CERTIFICATE

Year 1		Learning Credits
COM 1162	Interpersonal Relationships & Communication (OL)	3
EDU 1153	Foundations of Educational Assistance (OL)	3
EDU 1155	Math Instructional Support (OL)	3
EDU 1156	Language Arts Instructional Support (OL)	3
EDU 1162	Self-regulation in the Classroom (OL)	3
EDU 1163	Observation and Assessment (OL)	3
EDU 1165	Applied Behaviour Analysis (OL)	3
ENG 1150	Composition (OL)	3
OR		
ENG 1190	Introduction to Language & Literature	3
FWK 1160	Field Placement I (OL)	1.5
FWK 1163	Field Placement II (OL)	1.5
HSP 1151	Family Systems and Development (OL)	3
PSY 1170	Human Development Across the Lifespan (OL)	3
SOC 2273	Multicultural Issues (OL)	3
		36

Educational Assistant

DIPLOMA

Year 2		Learning Credits
CPU 2253	Technology in Education (OL)	3
EDU 2250	Speech & Language Development (OL)	3
EDU 2252	ESL Instructional Support (OL)	3
EDU 2254	Health Issues in Education (OL)	3
EDU 2255	Educational Trends (OL)	1.5
EDU 2258	Case Studies of Challenging Behaviour (OL)	3
EDU 2260	Positive Behavioural Supports (OL)	3
EDU 2266	Sensory Impairments (OL)	3
FWK 2260	Field Placement III (OL)	1.5
FWK 2262	Field Placement IV (OL)	1.5
HSP 2250	Functions of Behaviour in Individuals with ASD (OL)	3
PSY 2250	Educational Psychology (OL)	3
Elective		3
		34.5

Electives
Students may select from the following courses. Not all electives are offered every term. Other electives may be chosen with permission, prior to enrolment and completion of the course.

ECE 2270	Inclusion of Children with Special Needs (OL)	3
ENG 2285	Children's Literature (OL)	3
NAT 1155	Introduction to Native American Studies	3
PSY 1179	Adolescent Development (OL)	3
PSY 2253	Child Psychopathology (OL)	3
PSY 2260	Abnormal Psychology (OL)	3
PSY 2277	Addictions Treatment	3
SOC 1160	Introduction to Sociology (OL)	3
SOC 2260	Social Problems	3
SOC 2270	Sociology of the Family	3
SOC 2276	Sexuality	3

(OL) Course is also available through Online Learning.

GRADUATION
Upon successful completion of Year 1 requirements, students are awarded an Educational Assistant certificate. Upon successful completion of Year 2 requirements, students are awarded an Educational Assistant diploma.

TRANSFERS
Athabasca University
Certificate graduates may receive up to 30 credits towards a Bachelor of Professional Arts in Human Services major.

Diploma graduates may receive up to 60 credits towards the third year of the Bachelor of Professional Arts in Human Services major.

University of Alberta
Educational Assistant diploma graduates are eligible to receive up to 30 credits towards the University of Alberta Bachelor of Science Human Ecology (Family Ecology major/Child and Youth Studies major).

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

School of Human Services

Child and Youth Care	p. 58
Early Childhood Education	p. 75

lethbridgecollege.ca/programs

Engineering Design and Drafting Technology

Program Office: 403.320.3468 • engineeringtech@lethbridgecollege.ca

PROGRAM OVERVIEW
Engineering relies on the design and drafting of drawings, plans, and diagrams. At Lethbridge College, we have been teaching effective design and drafting skills for over 45 years. Our practical two-year diploma program in Engineering Design and Drafting Technology provides a solid foundation to build a career in this dynamic field.

The program provides you with a comprehensive understanding of mechanical design & drafting, architectural/structural design & drafting, municipal design & drafting, piping design & drafting, and topographical drafting. Fundamentals in these areas are applied with hands-on projects using Computer-Assisted Drafting (CAD) technology, and 3D printing technology.

Design and drafting expertise is accomplished using the latest 3D industry standard software. You will also gain an understanding of engineering fundamentals like stress analysis, strength of materials, and fluid mechanics. This background provides a solid basis for entry into the exciting and challenging field of engineering design and drafting technology. Applied research projects that include a variety of discipline related topics are completed in the final year.

Graduates from the program are able to produce and interpret industry-quality engineering designs and plans. Your valuable technical knowledge and advanced CAD technology will open the doors to a great career.

CAREER OPPORTUNITIES
An Engineering Design and Drafting Diploma will prepare you for design technologist positions in a high demand field where graduates are employed in areas that include:

- Architectural Technologist
- Building Designer
- Building Inspector
- CAD Technologist
- Engineering Design Technologist
- Environmental Consulting
- Infrastructure Designer
- Manufacturing Engineering
- Mapping/Survey Technologist
- Mechanical Design Technologist
- Process Design Technologist
- Structural Technologist

ADMISSIONS
New students are accepted into the Engineering Design and Drafting Technology program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- a minimum grade of 50 percent in Grade 12 math (equivalent to Alberta's Math 30-1) or 60 percent in Grade 12 math (equivalent to Alberta's Math 30-2)
- Grade 11 physics or Grade 12 science

Please note that Grade 12 biology and/or Grade 12 chemistry will not be accepted in lieu of Grade 12 science.

Basic understanding of computer technology such as word processing, file copying, and familiarity working in a Windows-based environment is required.

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

PRIOR LEARNING ASSESSMENT
If you have experience working in this field of study, you may be eligible for Prior Learning Assessment (PLA). Please direct your inquiries to the Chair.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
CAD 1160	Graphic Communications	3
COM 1164	Technical Communications	3
CON 1162	Engineering Management I	3
EDD 1160	Technical Drawing	1.5
MTH 1150	Engineering Math I	3
SUR 1150	Land Survey I	3
		16.5

Year 1 Term II		
EDD 1150	Architectural Design I	3
EDD 1170	Mechanical Design I	3
ENF 1166	Statics and Strength of Materials	3
ENF 1180	Engineering Materials and Construction Practices I	3
MTH 1170	Engineering Math II	3
SUR 1180	Land Survey II	3
		18

Year 2 Term I		
EDD 2255	Process Design I	3
EDD 2268	Architectural Design II	3
EDD 2270	Mechanical Design II	3
EDD 2275	Digital Mapping and Analysis	3
ENF 2250	Fluid Mechanics	3
STS 2260	Statistics and Applied Research I	3
		18

Engineering Design and Drafting Technology

Year 2 Term II		
CIV 2262	Structural Design I	6
EDD 2280	Process Design II	3
EDD 2285	Environmental Systems	3
EDD 2290	Civil Design and Drafting	3
EDD 2295	Architectural Design III	3
RSR 2265	Applied Research II	1.5
		19.5

Year 2 Term III (OPTIONAL)		
EDD 2298	Work Experience	1.5

GRADUATION
Upon successful completion of all program requirements, students are awarded a diploma in Engineering Design and Drafting Technology.

TRANSFERS
Lethbridge College
Graduates of the Engineering Design and Drafting Technology diploma may earn a second diploma in Civil Engineering Technology with an additional 1 ½ years of study (course schedule permitting).

Northern Alberta Institute of Technology (NAIT)
Graduates of the Engineering Design and Drafting Technology diploma program with a minimum grade point average of B- or 2.7 on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology in Technology Management) degree program. Applicants for transfer of credit under this Agreement shall complete all of the requested application procedures of NAIT including, but not limited to, written statements outlining personal objectives, career goals, letters of reference, work experience and community involvement, and such other information as may be requested and used by NAIT to determine whether the applicant complies with the requirements as set out or intended.

Royal Roads University
Engineering Design and Drafting Technology diploma graduates with a GPA of 3.0 or higher are eligible for a block transfer with the appropriate prerequisite qualification into the third year of the Bachelor of Commerce in Entrepreneurial Management at RRU.

University of Alberta
Engineering Design and Drafting Technology diploma graduates with a GPA of 3.5 or higher are eligible for up to one year of transfer credit dependent on appropriate grades and program.

For the most current information on transferring to the Faculty of Engineering, please go to: http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx.

University of Calgary
Graduates of a two-year diploma program will be awarded up to 5 full junior course options.

School of Engineering Technologies

Civil Engineering Technology	p. 60
Geomatics Engineering Technology	p. 94

lethbridgecollege.ca/programs

Environmental Assessment and Restoration

Program Office: 403.382.6991 • envisci@lethbridgecollege.ca

PROGRAM OVERVIEW
The assessment and restoration of the environment are at the centre of industry today. Businesses from manufacturing to oil and gas need to proactively focus on environmental control, reclamation, impact assessment and environmental audits, not only because of their operations but because government and society demand it. Our two-year diploma in Environmental Assessment and Restoration offers a unique mix of law, technical skills and science to prepare you for a successful career in this fast-growing sector.

You'll learn how to collect, understand, interpret and manage environmental information. With courses ranging from Environmental Chemistry and Hydrogeology to Environmental Law and Contaminant Management, you'll be ready to test your new skills in our extensive field studies components. Hands-on lab and field experience will show you how resource management works in the real world.

Your technical skills will include the use of industry-standard software and the latest Geographic Information System (GIS) applications. In the end, you'll be ready to address emerging issues like regeneration of disturbed lands, water quality management, and restoring abandoned industrial sites. With a comprehensive grounding in law, technical skills and science, what will you do with your diploma in Environmental Assessment and Restoration? One thing's for certain: Your skills will be in high demand!

CAREER OPPORTUNITIES
- Environmental Assessment Officer
- Environmental Compliance Officer
- Environmental Technologist
- Environmental Investigator
- Pollution Prevention Officer
- Reclamation Technologist
- Soils Technologist
- Water Survey Technologist
- Watershed Management Coordinator
- Water Quality Technologist

ADMISSIONS
New students are accepted into the Environmental Assessment and Restoration two-year diploma program for the Fall term (September) only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)
- Grade 11 biology
- Grade 11 chemistry

Basic computer literacy in the use of the Internet, e-mail, word processing, and fundamental processes of spreadsheets is required for the student to be successful in this program. Students lacking these skills are strongly urged to complete a basic computer literacy course prior to entering this program.

Employers often require that students hold a valid Standard First Aid or Wilderness First Aid Certificate and/or a CPR Certificate to be eligible for seasonal and/or permanent employment. Students are encouraged to obtain these certificates either prior to entering the program or during the first year.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

SUPPLIES FOR FIELD STUDIES
Students on field studies are expected to provide their own equipment and supplies. This includes: warm sleeping bag, ground sheet and pad, tent may be required (notification will be given at orientation), back pack for gear, adequate clothing for cold/wet weather, hiking boots, work gloves, cooking and eating gear (may be shared), food, binoculars, digital camera (standard feature), orienteering compass, chest waders, field equipment vest (recommended), "write-in-the-rain" treated field notebook/surveyors book, water bottle, sunscreen, CSA approved steel-toed safety boots (2nd year), safety glasses (also used in labs), 30 cm metric steel ruler.

OTHER REQUIRED SUPPLIES
Available from Lethbridge College Bookstore: Lab coat, safety glasses, Douglas protractor, "write-in-the-rain" field notebook/surveyors book, 16X hand lens, dissection kit, metric triangular scale with 1:20, 1:25, 1:50, 1:75, 1:100 and 1:125 graduations.

Available from Sporting, Hardware and Office Supply Stores: Nexus Type 115 or Silva Ranger compass (with declination adjustment screw), clipboard, 4 GB or higher USB memory stick, chest waders, scientific calculator ($15-$30 range), 12 or more coloured pencils (pencil crayons), binoculars (8X40 or 10X50 magnification), 30 cm metric steel ruler.

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202, Extension 5594.

School of Environmental Sciences

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lethbridgecollege.ca/programs

Environmental Assessment and Restoration

CURRICULUM

Year 1 Term I		Learning Credits
*BIO 1167	Botany	3
CHM 1155	Chemistry I	3
LAW 1150	Introduction to Environmental Law	3
*RRM 1197	Spatial Information Techniques	3
STS 1155	Descriptive Statistics	3
		15

Year 1 Term II		
*BIO 1170	Plant Systematics	3
*BIO 1172	Ecology	3
ENG 1155	Scientific and Technical Writing	3
*GEO 1166	Physical Geology	3
LAW 1164	Environmental Legislation	3
		15

Year 2 Term I		
CHM 2255	Chemistry II	3
GEO 1165	Geographic Information Systems	3
*RRM 2252	Water Resources	3
*RRM 2253	Soil Resources	3
*RRM 2256	Rangeland Management	3
		15

Year 2 Term II		
AGR 2266	Soil Fertility	3
*ENV 2280	Contaminant Management	3
*ENV 2290	Site Reclamation	3
*RRM 2264	Forest Management	3
*RRM 2295	Hydrogeology	3
		15

*Indicates course with a field study component.

Special note about field studies: Students are off-campus completing field studies during most of September and April. Due to scheduling conflicts, it is extremely difficult to take Year 1 and Year 2 courses simultaneously.

Students are advised to complete all Year 1 courses before proceeding to Year 2, and all Year 2 courses before enrolling in Year 3 courses (for related post-diploma certificate or degree programs). In the Fall term, field studies are scheduled in September, while in the Winter term, field studies are scheduled in April. Field studies schedules are dependent on many variables and may require students to participate on weekends or on statutory holidays. All program field studies are mandatory.

Students will be expected to complete non-credit environmental field techniques courses as part of the requirement to complete the program. Courses such as bear safety, firearms safety, pleasure craft operator's card and boat operations will occur as part of field trip season activities. Students will be responsible for the fees associated with these courses. Prior valid training possessed by students will be considered for recognition.

GRADUATION
Upon successful completion of the program, students are awarded an Environmental Assessment and Restoration diploma.

TRANSFERS
Interested students can obtain further information on these partnerships from the School of Environmental Sciences Chair. Students wishing to continue studies at other institutions must meet the entrance requirements of that institution.

Griffith University, Australia
Environmental Assessment and Restoration diploma program graduates may enter into the fourth semester of the Bachelor of Environmental Sciences degree at Griffith University, Gold Coast and Nathan campuses. Please visit www.griffith.edu.au/credit for more information.

Lethbridge College
Graduates of the Environmental Assessment and Restoration diploma may be eligible for up to 60 credits towards a Bachelor of Applied Science in Ecosystem Management or a Bachelor of Applied Science in Conservation Enforcement. Details regarding these programs can be found in the academic calendar or on the Lethbridge College website.

Royal Roads University
Graduates of the Environmental Assessment and Restoration diploma are eligible for full block transfer into the Bachelor of Science in Environmental Practice and the Bachelor of Arts in Environmental Practice. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science and the Bachelor of Science in Environmental Management. Two additional courses in math (calculus, linear algebra, physics) need to be completed upon arrival.

University of Alberta
Graduates of the two-year diploma program in Environmental Assessment and Restoration or Renewable Resource Management receive up to 60 credits towards a post-diploma Bachelor of Science degree in Environmental and Conservation Sciences, Land Reclamation major program. Students must meet the U of A's entrance requirements.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
Graduates of the two-year diploma in Environmental Assessment and Restoration or Renewable Resource Management receive two years' credit toward a post-diploma Bachelor of Science degree in Environmental Science from the U of L.

University of Northern BC
Graduates of Environmental Assessment and Restoration diploma are eligible for block transfer into the Bachelor of Science Natural Resources Management, NRM Forest Ecology Management major. For more information, please visit https://www.unbc.ca/forestry/transition-laddering-agreements.

Exercise Science

Program Office: 403.394.7338 • exercisescience@lethbridgecollege.ca

PROGRAM OVERVIEW
The rapidly changing and expanding field of exercise science is the study of the body and how it works during exercise; the science of physical activity. A two-year Lethbridge College diploma in Exercise Science is a passport to rewarding careers in community centres, fitness clubs, seniors' homes, sports organizations, hospitals, the travel industry, businesses and elsewhere, as fitness leaders, personal trainers, counselors, fitness assessors, and more.

You'll work in the health industry as a leader of tomorrow, helping others of all ages and abilities make the right decisions about their physical wellbeing. Every day will bring you new activities, challenges, and rewards. As an ideal exercise science student, you're ambitious, active, and dedicated. You work hard, lead by example, and enjoy communicating with others. If you, like us, believe that exercise is medicine, you'll be a huge benefit to this industry.

This is a challenging two-year science-based program that encompasses the study of anatomy, physiology, psychology, human nutrition, fitness leadership and assessment, and more. In the first year of study, students will have the opportunity to gain certification as a Fitness Leader with the Alberta Fitness Leadership Certification Association (AFLCA). Second year students will prepare for life after graduation by managing their own clients, presenting seminars, and preparing for certification as a Certified Personal Trainer (CPT) as recognized by the Canadian Society for Exercise Physiology (CSEP).

Once you've graduated, the entrepreneurial training you'll have received will enhance your employability. Once in the industry, you'll have ample opportunity to continue your education with related training to advance your career and remain current with changes in the field.

CAREER OPPORTUNITIES
Your Canadian Society for Exercise Physiology (CSEP) - Certified Personal Trainer (CPT) designation (certification) will prepare you to work in a variety of capacities within the fitness industry including:

- Business Entrepreneur
- Community Facilities
- Fitness Clubs
- Health/Resort Spas
- Medical Clinics
- Personal Fitness Care
- Physiotherapy Clinics
- Professional Corporations
- Recreation Groups
- Rehabilitation Agencies
- Schools/Out Reach Programs
- Senior Centres
- Sport Organizations
- Sport Teams
- Travel Industry

ADMISSIONS
New students are accepted into the Exercise Science program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- Grade 12 biology

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

Applicants are advised they may be required to provide a Criminal Record Check before entering the practicum experience component of the program.

Applicants will be required to have a current Standard First Aid and CPR Level A or C certificates prior to the practicum experience.

MEDICAL REQUIREMENTS
Although no physical requirements are placed on applicants for entry to the program, applicants should ensure through a medical examination that their cardiovascular system is suitable to undertake strenuous exercise. Interviews may be requested.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students will purchase a Lethbridge College Exercise Science shirt ($30). The shirts are worn during practicum experiences.

Pursuing certification in some specific courses may require an additional fee. Please contact the program for details.

CURRICULUM

Year 1 Term I		Learning Credits
BIO 1169	Structural Human Anatomy	3
ENG 1156	Business Writing (OL)	3
PED 1159	Exercise and Healthful Living	3
PED 1178	Resistance Training	3
PSY 1168	Sport and Exercise Psychology	3
		15

Year 1 Term II		
BIO 1155	Human Nutrition	3
BIO 1180	Human Physiology	3
PED 1188	Movement Education	3
PED 2252	Research Methods in Physical Education	3
PED 2260	Biomechanics & Applied Kinesiology	3
Elective		3
		18

Exercise Science

Year 2 Term I

COM 1162	Interpersonal Relationships & Communication (OL)	3
PED 2256	Prevention & Care of Athletic Injuries	3
PED 2261	Adapted Physical Activity	3
PED 2262	Exercise Physiology	3
PED 2267	Fitness Assessment	3
		15

Year 2 Term II

PED 2258	Practicum	3
PED 2259	Exercise Program Design	3
PED 2271	Advanced Conditioning	3
PED 2274	Exercise & Chronic Conditions	3
Elective		3
		15

Electives: Students may select from the following electives, with choices dependent on scheduling. Some courses may require a prerequisite that is not included in the Exercise Science curriculum or electives list.

BIO 1152	Physiology of Aging (OL)	3
BIO 1156	Wellness and Health Issues	3
BUS 1124	Service-Based Small Business Management	3
CPU 1151	Intro to Computers (OL)	1.5
ENG 1150	Composition (OL)	3
HUM 1150	Logic	3
HUM 1155	Ethics (OL)	3
ORG 2254	Public Relations	3
PED 1161	Judo Level I	1.5
PED 1162	Leisure Activities and Sports	1.5
PED 1170	Volleyball	1.5
PED 1172	Latin/Hip Hop/Swing Dance	1.5
PED 1173	Basketball	1.5
PED 1180	Introduction to Coaching	3
PED 1185	Kickboxing and Fitness	1.5
PED 2257	Therapeutic Exercise	3
PED 2272	Leadership in Physical Education	3
PED 2276	Weight Training and Exercise II	1.5
PED 2280	Advanced Coaching	3
PED 2282	Judo Level II	1.5
PSY 1170	Human Development Across the Lifespan (OL)	3
PSY 1177	Psychology of Aging (OL)	3
PSY 2255	Psychology of Sports	3
SOC 1160	Introduction to Sociology (OL)	3
SOC 1167	Sociology of Aging (OL)	3
SOC 2250	Sociology of Sports	3
SOC 2273	Multicultural Issues	3

(OL) indicates courses which are also available through Online Learning.

GRADUATION

Upon successful completion of program requirements, students are awarded an Exercise Science diploma.

Students who successfully complete the program are eligible to test for certification as a Certified Personal Trainer (CPT) as recognized by the Canadian Society for Exercise Physiology (CSEP).

TRANSFERS

University of Calgary

Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge

Graduates from the Exercise Science diploma are eligible to be admitted into the University of Lethbridge's Post-Diploma Bachelor of Health Sciences degree program for completion of their Bachelor of Health Sciences degree.

University of Regina

Graduates who have achieved a minimum grade of 60% (GPA) will be eligible for 60 credit hours transfer to the Bachelor of Kinesiology- Human Kinetics Major. For more information, please visit: www.uregina.ca/kinesiology

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lethbridgecollege.ca/programs

General Studies

Program Office: 403.394.7338 • generalstudies@lethbridgecollege.ca

PROGRAM OVERVIEW
Tell us where you want to go, and we'll help you get there! General Studies at Lethbridge College offers you choices - choices about what you want to learn and what you want to do.

General Studies provides learners with a broadly based liberal arts foundation in a supportive, personalized environment with enthusiastic, qualified instructors. Let us help you develop your interests and skills across a wide variety of topics within the Humanities, Sciences, Social Sciences, English and Physical Education. By developing analytical and communication skills, citizenship virtues, and a scientific understanding of society, General Studies' graduates are well positioned for success in employment and for lifelong learning.

Students can pursue either a General Studies diploma, choosing from a more eclectic mix of courses to complete their diploma, or a General Studies diploma in one of three majors:
- English
- Psychology and Sociology

General Studies is designed to provide learners with vocational clarity and will prepare you for a career, transfer to another college or university program, or other learning opportunities. Our applied research and Service Learning options provide you with the opportunity to gain valuable work-based experience that will enhance your skills and resume.

General Studies offers a solid foundation for learning for life. With choices ranging from single courses to full diploma programs, you'll find that General Studies offers a great building block for your future!

CAREER OPPORTUNITIES
Start here, go anywhere! General Studies provides the learner with foundational skills that transfer easily to a wide variety of careers and academic programs ranging from social scientists to teachers, from business entrepreneurs to nurses, and much, much more.

ADMISSIONS
Students are accepted into the General Studies program for the Fall (September), Winter (January) or Spring (May) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

GENERAL STUDIES DIPLOMA
Students wishing to qualify for a General Studies diploma must successfully complete 60 credits according to the following:
- Core Area: a minimum of 30 credits
- Electives: any other post-secondary courses to bring total to 60 credits
- Suggested courses are listed below; other approved courses may also be used.

CURRICULUM
Core area: a minimum of 3 credits from each of the following areas from the School of Liberal Arts and Life Sciences for a minimum of 30 credits:

Personal Skills:

CMM 2295	Telling Stories II	3
COL 1130	Achieving College Success (OL)	3
COM 1152	Transcultural Communication	3
COM 1162	Interpersonal Relations & Communications (OL)	3
COM 1170	Helping Relationships (OL)	3
CPL 1150	Service Learning	3
CPU 1151	Introduction to Computers (OL)	1.5
CPU 2251	Computer Applications (OL)	1.5
LAR 1130	College Reading and Writing (OL)	3
MTH 1130	Basic College Mathematics	3
PED 1130	Outdoor Education	3
PED 1157	Health, Wellness and Fitness (OL)	1.5
PED 1159	Exercise and Healthful Living	3
PED 1160	Weight Training and Exercise	1.5
PED 1162	Intro to Leisure Activities & Sports	1.5
PED 1170	Volleyball	1.5
PED 1173	Basketball	1.5
PED 1174	Soccer	1.5
PED 1175	Baseball	1.5
PED 1178	Resistance Training	3
PED 1180	Introduction to Coaching	3
PED 2272	Leadership in Physical Education	3
PED 2276	Weight Training and Exercise II	1.5
PED 2280	Advanced Coaching	3
PRS 1155	Speech (OL)	3

Social Sciences:

ANT 1195	Cultural Anthropology	3
ANT 2295	Anthropology of Gender	3
ARK 2261	Archaeology of Prehistoric Europe	3
ARK 2265	Archaeology of Ancient Civilizations	3
HIS 1170	Western Civilization (OL)	3
HIS 2265	Canadian History	3
HIS 2270	American History	3
PSC 1150	Local Government (OL)	3
PSC 1161	Introduction to Politics (OL)	3
PSC 1165	Canadian Government	3
PSC 2250	Parties & Elections	3
PSC 2260	International Relations	3
PSC 2280	Political Philosophy	3
PSY 1160	Introduction to Psychology (OL)	3
PSY 1168	Sport and Exercise Psychology	3
PSY 1170	Human Development Across the Lifespan (OL)	3
PSY 1171	Child Growth & Development (OL)	3
PSY 1177	Psychology of Aging (OL)	3
PSY 1179	Adolescent Development (OL)	3
PSY 1191	The Developing Brain (OL)	3
PSY 2253	Child Psychopathology (OL)	3
PSY 2255	Psychology of Sports	3
PSY 2260	Abnormal Psychology (OL)	3
PSY 2270	Introduction to Personality Theory	3
PSY 2275	Introduction to Forensic Psychology	3
PSY 2277	Addictions Treatment	3
PSY 2280	Social Psychology	3
PSY 2290	Brain and Behaviour	3
PSY 2299	Independent Study in Psychology	3
SOC 1160	Introduction to Sociology (OL)	3
SOC 1167	Sociology of Aging (OL)	3
SOC 1170	Introduction to Social Work	3
SOC 2250	Sociology of Sports	3
SOC 2260	Social Problems	3
SOC 2270	Sociology of the Family	3
SOC 2275	Culture & Social Policy Abroad	3
SOC 2276	Sexuality	3

General Studies

Sciences:

ARK 1165	Introduction to Archaeology	3
BIO 1150	Cellular Basis of Life (OL)	3
BIO 1151	Environmental Issues (OL)	3
BIO 1152	Physiology of Aging (OL)	3
BIO 1155	Human Nutrition	3
BIO 1156	Wellness & Health Issues	3
BIO 1157	Diversity of Life	3
BIO 1160	Anatomy & Physiology I (OL)	3
BIO 1161	Anatomy & Physiology II (OL)	3
BIO 1162	Microbiology (OL)	3
BIO 1169	Structural Human Anatomy	3
BIO 1180	Human Physiology	3
CHM 1151	Chemistry in Context	3
MTH 1149	Pre-Calculus (OL)	3
MTH 1156	Techniques of Calculus	3
MTH 1160	Calculus I	3
MTH 1165	Calculus II	3
STS 2270	Social Science Research Methods	3

Humanities:

ART 1150	Art Explorations	3
ART 1160	Painting I	3
ART 1170	Sculpture I	3
BLK 1151	Blackfoot Language I	3
BLK 2251	Blackfoot Language II	3
DES 1153	Basic Design	3
HUM 1150	Logic	3
HUM 1155	Ethics (OL)	3
HUM 1158	Creative Problem Solving	3
HUM 1180	Intro to World Religions (OL)	3
HUM 1190	Popular Culture (OL)	3
HUM 2281	Christianity	3
HUM 2285	Buddhism	3
HUM 2291	Film Studies	3
MUS 1150	Music Appreciation	3
NAT 1150	Exploring Indigenous Perspectives (OL)	3
NAT 1155	Introduction to Native American Studies	3
SPN 1150	Introductory Spanish	3
SPN 1151	Introductory Spanish II	3

English:

ENG 1150	Composition (OL)	3
ENG 1156	Business Writing (OL)	3
ENG 1165	Intro to Creative Writing	3
ENG 1180	Survey of Canadian Literature	3
ENG 1185	Writing for Children and Young Adults	3
ENG 1190	Intro to Language & Literature	3
ENG 2260	Intro to Dramatic Literature	3
ENG 2265	Native American Literature	3
ENG 2285	Children's Literature (OL)	3
ENG 2290	Writing for the Screen	3

Electives:
Any other post-secondary courses to bring the total to 60 credits.

(OL) indicates courses which are also available through Online Learning.

GENERAL STUDIES DIPLOMA LIBERAL ARTS MAJORS

- English
- Psychology and Sociology

ENGLISH MAJOR

Written communication is a key component of all academic inquiry, regardless of discipline. The English major equips students with an array of tools for English expression, providing them a distinctive advantage in both their present and future academic endeavors. Written communication is also a key component in the affairs of business, government, law, education, and science. Therefore, the tools acquired in the English major are also of considerable value beyond the academy. Finally, through the study of various literary genres and the literature of various historical periods, the English major develops the critical thinking skills and creativity necessary for understanding the global phenomenon that is English culture.

English Curriculum (60 Credits)

Year 1 Term I		Learning Credits
ENG 1150	Composition (OL)	3
ENG 1190	Introduction to Language & Literature	3
HUM 1150	Logic	3
PSC 1161	Introduction to Politics (OL)	3
PSY 1160	Introduction to Psychology (OL)	3
		15

Year 1 Term II		
BIO 1151	Environmental Issues (OL)	3
ENG 1165	Intro to Creative Writing	3
ENG 1180	Survey of Canadian Literature	3
HIS 1170	Western Civilization (OL)	3
SOC 1160	Introduction to Sociology (OL)	3
		15

Year 2 Term I		
COM 1162	Interpersonal Relationships & Communication (OL)	3
ENG 2265	Native American Literature	3
ENG 2290	Writing for the Screen	3
HIS 2265	Canadian History	3
OR		
HIS 2270	American History	3
Approved Elective		3
		15

Year 2 Term II		
ENG 2260	Introduction to Dramatic Literature	3
ENG 2285	Children's Literature (OL)	3
HUM 2291	Film Studies	3
Approved Elective		3
Approved Elective		3
		15

PSYCHOLOGY AND SOCIOLOGY MAJOR

The study of psychology and sociology are core elements of a liberal arts post-secondary education. Psychology and sociology courses give students a working knowledge of the major disciplines and methods of inquiry in the social sciences. Students develop a sense of historical perspective and deepen their understanding of their own and other people's historical and cultural heritage. Students explore a vast array of topics, from the intricate workings of the human mind to the complex social interactions at a family and societal level. As part of a foundation for other educational disciplines, this major will help students understand topics such as culture, race, religion, sex and gender, deviance and crime, and how individuals within society come to understand their roles.

Psychology and Sociology Curriculum (60 Credits)

Year 1 Term I		Learning Credits
ENG 1150	Composition (OL)	3
PSC 1161	Introduction to Politics (OL)	3
PSY 1160	Introduction to Psychology (OL)	3
PSY 1170	Human Development (OL)	3
SOC 1167	Sociology of Aging (OL)	3
		15

General Studies

Year 1 Term II

BIO 1151	Environmental Issues (OL)	3
HIS 1170	Western Civilization (OL)	3
PSY 2280	Social Psychology	3
SOC 1160	Introduction to Sociology (OL)	3
SOC 2276	Sexuality	3
		15

Year 2 Term I

PSY 2270	Introduction to Personality Theory	3
PSY 2290	Brain and Behaviour	3
SOC 2270	Sociology of the Family	3
Approved Elective		3
Approved Elective		3
		15

Year 2 Term II

PSY 2260	Abnormal Psychology (OL)	3
SOC 2260	Social Problems	3
STS 2270	Social Science Research Methods	3
Approved Elective		3
Approved Elective		3
		15

General Studies - Liberal Arts Majors
Approved Electives

ANT 1195	Cultural Anthropology	3
ANT 2295	Anthropology of Gender	3
ARK 1165	Introduction to Archaeology	3
ARK 2261	Archaeology of Prehistoric Europe	3
ARK 2265	Archaeology of Ancient Civilizations	3
ART 1150	Art Explorations	3
ART 1170	Sculpture	3
BIO 1150	Cellular Basis of Life (OL)	3
BIO 1152	Physiology of Aging (OL)	3
BIO 1155	Human Nutrition	3
BIO 1156	Wellness and Health Issues	3
BIO 1157	Diversity of Life	3
BIO 1160	Anatomy and Physiology I	3
BIO 1161	Anatomy and Physiology II	3
BIO 1162	Microbiology (OL)	3
BLK 1151	Blackfoot Language I	3
BUS 1166	Business Law	3
CHM 1151	Chemistry in Context	3
COM 1162	Interpersonal Relationships & Communication (OL)	3
COM 1170	Helping Relationships (OL)	3
CMM 2295	Telling Stories II	3
CPU 1151	Introduction to Computers (OL)	1.5
CPU 2251	Computer Applications (OL)	1.5
DES 1153	Basic Design	3
ECN 1180	Microeconomics	3
ECN 2253	Macroeconomics	3
ENG 1165	Intro to Creative Writing	3
ENG 1180	Survey of Canadian Literature	3
ENG 1190	Introduction to Language & Literature	3
ENG 2260	Introduction to Dramatic Literature	3
ENG 2265	Native American Literature	3
ENG 2285	Children's Literature (OL)	3
ENG 2290	Writing for the Screen	3
HIS 2265	Canadian History	3
HIS 2270	American History	3
HUM 1150	Logic	3
HUM 1155	Ethics (OL)	3
HUM 1180	Introduction to World Religions (OL)	3
HUM 1190	Popular Culture (OL)	3
HUM 2281	Christianity	3
HUM 2285	Buddhism	3
HUM 2291	Film Studies	3
MUS 1150	Music Appreciation	3
NAT 1155	Introduction to Native American Studies	3
PED 1159	Exercise and Healthful Living	3
PED 1180	Introduction to Coaching	3
PRS 1155	Speech (OL)	3
PSC 1150	Local Government (OL)	3
PSC 1165	Canadian Government	3
PSC 2250	Parties and Elections	3
PSC 2260	International Relations	3
PSC 2280	Political Philosophy	3
PSY 1170	Human Development Across the Lifespan (OL)	3
PSY 1171	Child Growth and Development (OL)	3
PSY 1177	Psychology of Aging (OL)	3
PSY 1179	Adolescent Development (OL)	3
PSY 2253	Child Psychopathology (OL)	3
PSY 2255	Psychology of Sports	3
PSY 2260	Abnormal Psychology (OL)	3
PSY 2270	Introduction to Personality Theory	3
PSY 2275	Introduction to Forensic Psychology	3
PSY 2277	Addictions Treatment	3
PSY 2280	Social Psychology	3
PSY 2290	Brain and Behaviour	3
SOC 1167	Sociology of Aging (OL)	3
SOC 1170	Introduction to Social Work	3
SOC 2250	Sociology of Sports	3
SOC 2260	Social Problems	3
SOC 2270	Sociology of the Family	3
SOC 2276	Sexuality	3
SPN 1150	Introductory Spanish	3
SPN 1151	Introductory Spanish II	3
STS 2270	Social Science Research Methods	3

(OL) indicates courses which are also available through Online Learning.

Other post-secondary courses open to General Studies students may be considered.

TRANSFERS

Other Colleges and Universities

Many of the courses offered in General Studies are transferable to a wide variety of institutions and programs across Alberta, Canada and internationally. Although advance credit is ultimately determined by the receiving institution, it may be possible for you to start your post-secondary educational program in General Studies at Lethbridge College. Please make an appointment to speak with an Academic Advisor at Lethbridge College if you wish to pursue this option.

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lethbridgecollege.ca/programs

General Studies - Indigenous Career Pathways

Program Office: 403.394.7338 • generalstudies@lethbridgecollege.ca

PROGRAM OVERVIEW
Get started on the path to help you realize your career goals with our one-year General Studies, Indigenous Career Pathways program. This program prepares Indigenous students to enter select Lethbridge College programs. It engages learners in a curriculum that combines required post-secondary courses with selected Lethbridge College program courses.

The curriculum is designed to assist students to further develop their writing and information literacy skills, ensuring students have the skills necessary for success in post-secondary studies. This program will also foster cultural awareness through a set curriculum that includes coursework in Indigenous culture and college success. Students entering this program will be provided with additional supports from Indigenous Services and will work with Career and Academic Advising in completing Academic Success Plans.

This is a 24-credit, 8-month (two terms) college program serving Indigenous students who want to enhance their opportunities for success, and sample from a variety of program offerings. The curriculum consists of a total of eight courses preparing students for success and admission into their choice of Lethbridge College programs identified in this certificate.

In the first term, students will work as part of a cohort with courses focusing on further enhancing students' abilities in writing, college success, psychology and life, and Indigenous ways of knowing. In the second term, students will focus on courses from one of a number of distinct pathways associated with a diploma program or enroll in a general interest collection of courses in which they can experience topics from multiple program areas.

Students who successfully complete the program with a minimum GPA of 1.5 will be awarded a Lethbridge College certificate and will be awarded guaranteed placement (NOTE: some programs have a competitive entry requirement) in the related diploma program for the following fall term provided the diploma program admission requirements are met and students declare their chosen career pathway diploma program by October 15 in Term 1 of this certificate. It is strongly recommended that students contact Career and Academic Advising for change of program information.

ADMISSIONS
Students are accepted into the General Studies, Indigenous Career Pathways program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Prior to admission into one of the following diploma programs, students must meet specific diploma entrance requirements. Furthermore, because of the variety of diploma programs, students need to be aware of any specific academic and non-academic diploma program requirements. Students should meet with a Career and Academic Advisor for additional information on academic and non-academic program requirements.

Additional diploma program academic requirements:

- Business Administration - Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)
- Computer Information Technology - Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)
- Environmental Assessment and Restoration - Grade 11 biology, Grade 11 chemistry, and Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math
- Natural Resource Compliance - Grade 11 biology, and Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math). Competitive program entry requirement.
- Renewable Resource Management - Grade 11 biology, Grade 11 chemistry, and Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
COL 1130	Achieving College Success (OL)	3
LAR 1130	College Reading and Writing (OL)	3
NAT 1150	Exploring Indigenous Perspectives	3
PSY 1140	Psychology and Life	3
		12

Year 1 Term II		Learning Credits
Agriculture Sciences		
AGR 1169	Agriculture Soils	3
BIO 1151	Environmental Issues	3
COM 1162	Communications	3
ENG 1150	Composition	3
		12
Business Administration		
BUS 1170	Introduction to Management	3
BUS 1177	Entrepreneurship	3
ENG 1168	Business Communication	3
MKT 1188	Introduction to Marketing	3
		12
Child and Youth Care		
CYC 1194	Activity Leadership	3
ENG 1150	Composition (OL)	3
HSP 1151	Family Systems and Development (OL)	3
PSY 1170	Human Development Across the Lifespan (OL)	3
		12
Computer Information Technology		
BUS 1170	Introduction to Management	3
CIT 1152	Computer Hardware Maintenance	3
CIT 1163	Database Management Systems	3
MKT 1188	Introduction to Marketing	3
		12

General Studies - Indigenous Career Pathways

Criminal Justice Policing/ Correctional Studies

CJP 1159	Ethics and Critical Thought (OL)	3
OR		
COR 1152	Fundamentals of Corrections (OL)	3
CJP 1160	Introduction to the Criminal Justice System (OL)	3
CJP 1183	Diversity Issues in Criminal Justice	3
OR		
CJP 1185	Diverse Populations in Public Safety (OL)	3
SOC 1160	Introduction to Sociology (OL)	3
		12

Digital Communications and Media

DCM 1153	Communication Process	3
DCM 1154	Public Relations	3
DCM 1157	Advertising and Marketing for Media	3
DCM 1159	Media Law and Ethics	3
		12

Early Childhood Education

ECE 1151	Health, Safety, and Nutrition (OL)	3
ECE 1154	Guiding Children's Behaviour (OL)	3
ECE 1155	Intro to Early Childhood Education (Offered OL only)	3
ENG 1150	Composition (OL)	3
		12

Environmental Assessment & Restoration/Natural Resource Compliance/Renewable Resource Management

BIO 1167	Botany	3
BIO 1172	Ecology	3
ENG 1155	Scientific & Technical Writing	3
RRM 1197	Spatial Information Techniques	3
		12

(BIO 1167, BIO 1172, RRM 1197 have labs)

General Studies (University Transfer)

ENG 1150	Composition (OL)	3
NAT 1155	Introduction to Native American Studies	3
PSY 1160	Introduction to Psychology (OL)	3
SOC 1160	Introduction to Sociology (OL)	3
		12

Multimedia Production

BUS 1124	Service-Based Small Business Management	3
CAP 1158	Communication Process	3
OR		
COM 1162	Interpersonal Relationships and Communication (OL)	3
CMM 1185	The Principles of Animation	3
WRI 1150	Writing for Interactive Media	3
		12

General Interest

In the General Interest stream for Term 2 (winter term), students will select a minimum of four courses for twelve credits from any of the streams. For example, the selection could be one course from four different streams, two courses from two different streams, etc. A total of 12-credits is required for Term 2.

(OL) indicates courses which are also available through Online Learning.

GRADUATION

Upon successful completion of all program requirements, students are awarded a General Studies, Indigenous Career Pathways certificate.
Successful completion of this program may qualify students for admission into other Lethbridge College programs. Please consult specific program admission requirements.

School of Liberal Arts and Life Sciences

Exercise Science p. 86
General Studies p. 88

lethbridgecollege.ca/programs

Geomatics Engineering Technology

Program Office: 403.320.3468 • engineeringtech@lethbridgecollege.ca

PROGRAM OVERVIEW
Geomatics is the practice of gathering and interpreting spatial information about the physical environment. It brings together surveying and mapping with new technologies like Global Navigation Satellite Systems (GNSS) and Geographic Information Systems (GIS). Our practical two-year "nationally accredited" diploma in Geomatics Engineering Technology prepares graduates for participation in this high tech profession, in areas ranging from surveying and land management to construction and the oil/gas industry.

Geomatics professionals are integral to engineering related infrastructure projects. Geomatics uses some of the latest technologies such as 3D scanners and UAS (unmanned aircraft systems). Areas of study include surveying, mapping, and data collection techniques using hands-on exercises. Advanced concepts involve the interpretation of aerial photographs using industry standard remote sensing software. The surveying aspects of the program use survey grade GNSS equipment and digital mapping opportunities uses industry standard GIS software applications. There are many opportunities to demonstrate field techniques by working in small teams on projects that simulate the real world demands of surveying, mapping, and interpreting the relationship between different aspects of the physical environment.

A Geomatics Engineering Technology diploma can take your valuable combination of technical knowledge, interpretative skills and hands-on experience into the workplace. There is also an option to continue your studies by transferring into the University of Lethbridge's degree in Geography (Geographic Information Systems).

A Geomatics Engineering Technology diploma provides a great foundation for a career as a technology professional.

CAREER OPPORTUNITIES
- Aerial Triangulation Technician
- Environmental Consulting
- GIS Analyst
- GIS Technologist
- Land Planning & Mapping
- Mapping Technologist
- Natural Resources Technologist
- Precision Agriculture Analyst
- Survey Assistant
- Survey Party Chief
- Survey Plan Checker
- UAV Technologist

ADMISSIONS
New students are accepted into the Geomatics Engineering Technology program in the Fall (September) term only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- a minimum grade of 50 percent in Grade 12 math (equivalent to Alberta's Math 30-1) or 60 percent in Grade 12 math (equivalent to Alberta's Math 30-2)
- Grade 11 physics or Grade 12 science

Please note that Grade 12 biology and/or Grade 12 chemistry will not be accepted in lieu of Grade 12 science.

Basic understanding of computer technology such as word processing, copying files and familiarity working in a Windows-based environment is required.

PRACTICUM EXPERIENCE REQUIREMENTS
There is an elective practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

PRIOR LEARNING ASSESSMENT (PLA)
If you have experience working in this field of study, you may be eligible for Prior Learning Assessment (PLA). Please direct your inquiries to the Chair.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
CAD 1160	Graphic Communications	3
COM 1164	Technical Communications	3
CON 1162	Engineering Management I	3
EDD 1160	Technical Drawing	1.5
MTH 1150	Engineering Math I	3
SUR 1150	Land Survey I	3
		16.5

Year 1 Term II		
CPU 1160	Geomatics Programming I	3
GEO 1152	Geomatics Engineering Science	3
GEO 1181	Geospatial Analysis I	3
GEO 1185	Geodetic Fundamentals	3
MTH 1170	Engineering Math II	3
SUR 1180	Land Survey II	3
		18

Geomatics Engineering Technology

Year 2 Term I		
CPU 2275	Geomatics Programming II	3
GEO 2252	Geographic Information Systems I	6
SUR 2250	Survey Calculations and Analysis	3
SUR 2262	Specialized Positioning Applications	3
SUR 2267	Advanced Survey Applications I	3
STS 2260	Statistics and Applied Research I	3
		21
Year 2 Term II		
GEO 2280	Geographic Information Systems II	3
GEO 2290	Geospatial Analysis II	3
RSR 2265	Applied Research II	1.5
SUR 2272	Cadastral Surveying	3
SUR 2280	Geomatics Engineering Surveys	3
SUR 2285	Advanced Survey Applications II	3
		16.5
Year 2 Term III (OPTIONAL)		
GEO 2298	Work Experience	1.5

GRADUATION
Upon successful completion of all program requirements, students are awarded a Geomatics Engineering Technology diploma.

TRANSFERS
Lethbridge College
A graduate of the Geomatics Engineering Technology program may gain a second diploma in Civil Engineering Technology or Engineering, Design and Drafting Technology with an additional 1 ½ years of study (course schedule permitting).

Northern Alberta Institute of Technology (NAIT)
Graduates of the Geomatics Engineering Technology diploma program with a minimum grade point average of B- or 2.7 on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology in Technology Management) degree program. Applicants for transfer of credit under this Agreement shall complete all of the requested application procedures of NAIT including, but not limited to, written statements outlining personal objectives, career goals, letters of reference, work experience and community involvement, and such other information as may be requested and used by NAIT to determine whether the applicant complies with the requirements as set out or intended.

Royal Roads University
Graduates of the Geomatics Engineering Technology diploma graduates with a GPA of 3.0 or higher are eligible for a block transfer with the appropriate prerequisite qualification into the third year of the Bachelor of Commerce in Entrepreneurial Management at RRU.

University of Alberta
Graduates of the Geomatics Engineering Technology diploma graduates with a GPA of 3.5 or higher are eligible for up to one year of transfer credit dependent on appropriate grades and program.

For the most current information on transferring to the Faculty of Engineering, please go to: http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
With a 2+2 agreement with the University of Lethbridge, Lethbridge College graduate students in the Geomatics Engineering Technology program with a cumulative diploma GPA of 2.50 or higher may obtain a (Post-Diploma) Bachelor's Degree of Science in Geography.

School of Engineering Technologies

Civil Engineering Technology p. 60
Engineering Design and Drafting Technology p. 81

lethbridgecollege.ca/programs

Health Care Aide

Program Office: 403.320.3310 • healthcareaide@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

The Health Care Aide program admission requirements, length of the program, curriculum, including courses names and numbers, may be changing for the Fall 2020 intake - please see an Academic Advisor for more information on taking these courses towards the program. Call 403.320.3323 or 1.800.572.0103 Ext. 3323

PROGRAM OVERVIEW
This 485-hour program will prepare you to become a vital member of the healthcare team. The Health Care Aide (HCA), under the supervision of a regulated healthcare professional, performs such duties as assisting individuals in meeting basic needs and activities of daily living. Employment opportunities exist in long-term care, community settings, assisted living and acute care. The Health Care Aide program delivers the Alberta Provincial Curriculum that includes theory and practical experiences.

CAREER OPPORTUNITIES
Your certificate in the Health Care Aide program will prepare you for a wide range of employment opportunities including:
- Doctors' practices
- Health care agencies
- Hospice facilities
- Hospitals
- Long-term care facilities
- Medical clinics
- Private health care providers
- Respite facilities

ADMISSIONS
New students are accepted into the Health Care Aide program for the Fall (September) and Winter (January) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
Applicants to this program do not require a high school diploma; however, they must satisfy the following specific course requirements (or equivalencies):
- Grade 10 English

Note: Effective Fall 2020, admission requirements may be changing to a 60% minimum in English 20-2. Applicants whose first language is not English may also be required to meet an English Language Proficiency (ELP) requirement. Please watch the program website by going to lethbridgecollege.ca or contacting admissions@lethbridgecollege.ca for updates.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial "Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs", all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage.

In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
HCA 1103	Assist with Medication Delivery	1.5
HCA 1105	Practicum I	1.5
HCA 1107	Health and Chronic Illness	3
HCA 1112	Safe Work Practices	3
HCA 1113	Communication in Health Care	1.5
HCA 1114	Clients with Complex Care	3
HCA 1115	Assist with Activities of Daily Living	3
HCA 1116	Specialized Client Needs	3
		19.5

Year 1 Term II		
HCA 1111	Practicum II	1.5
		1.5

Important Note: Progression into HCA 1105 (Practicum I) requires successful completion of HCA 1103, HCA 1107, HCA 1112, HCA 1113, HCA 1114, HCA 1115, and HCA 1116. Progression into HCA 1111 (Practicum II) requires successful completion of HCA 1105 (Practicum I).

GRADUATION
Upon successful completion of all program requirements, students are awarded a Health Care Aide certificate.

The Health Care Aide program is equivalent to the Health Care Aide Provincial Curriculum of Alberta.

Interior Design Technology

Program Office: 403.320.3468 • interiordesign@lethbridgecollege.ca

PROGRAM OVERVIEW
Interior design technologists help create the interior environments people inhabit every day. Our intensive, two-year diploma program in Interior Design Technology will give you the specialized knowledge and skills you need to apply your creativity in today's design industry.

Our practical, hands-on program is structured around the professional standards of the Council for Interior Design Accreditation (CIDA). Working in small classes with one-to-one instructor support, you will master various software used throughout interior design practice. You'll work on projects that simulate real-world design problems and gain experience in commercial and residential interior design.

Our design studio courses cover commercial interior design ranging from corporate to hospitality design. You'll balance this commercial design experience with an understanding of residential interior design, including project work focused on space planning, construction fundamentals and interior detailing. A required practicum lets you demonstrate your design skills and abilities in the workplace or contribute to community-based design projects while gaining valuable industry experience.

Your Interior Design Technology diploma opens the door to a world of exciting opportunities. With a comprehensive grounding in design theory and application, you'll be ready to apply your creativity in both commercial and residential fields. You'll be ready for a successful career in design!

CAREER OPPORTUNITIES
Our diploma program in Interior Design Technology will prepare you to work with design teams in a wide variety of fields.
- Architectural Illustrator
- Home Stager and Decorator
- Interior Design Technologist
- Kitchen and Bath Designer
- Product Sales Representative
- Residential and Commercial Space Planner

ADMISSIONS
New students are accepted into the Interior Design Technology program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

A drafting kit deposit is required and is refundable upon return of the kit. A list of necessary art supplies will be provided at the beginning of the term.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to purchase a mobile device from Lethbridge College complete with program specific software. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
IDM 1158	Representations I	3
IDM 1163	History of Interiors I	3
IDM 1170	Colour and Lighting	3
IDM 1179	Design Fundamentals	3
IDM 2255	Materials and Finishes	3
		15

Year 1 Term II		
IDM 1159	Representations II	3
IDM 1167	Interior Detailing I	3
IDM 1173	History of Interiors II	3
IDM 1181	Residential Design Studio	3
IDM 1190	Digital Drafting	3
		15

Year 2 Term I		
ENG 1150	Composition (OL)	3
OR		
ENG 1156	Business Writing (OL)	3
IDM 1155	Professional Practice in Interior Design	3
IDM 2267	Interior Detailing II	3
IDM 2278	Corporate Design Studio	3
IDM 2290	Digital Illustration	3
		15

Year 2 Term II		
IDM 2275	Digital Modelling and Animation	3
IDM 2276	Professional Portfolio	3
IDM 2277	Practicum	3
IDM 2279	Global Design Trends	3
IDM 2287	Hospitality Design Studio	6
		18

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a diploma in Interior Design Technology.

TRANSFERS
University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

Yorkville University
Graduates of Interior Design Technology diploma are eligible to receive up to 72 credits towards the Bachelor of Interior Design (BID).

School of Media and Design

Architectural Animation Technology	p. 47
Digital Communications and Media	p. 73
Multimedia Production	p. 103
Virtual and Augmented Reality	p. 116

lethbridgecollege.ca/programs

Justice Studies - Bachelor of Applied Arts

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

PROGRAM OVERVIEW
Are you interested in joining the justice field through a program of advanced study? Are you a justice professional wishing to enhance your understanding of criminal justice theory and practice? Our Bachelor of Applied Arts in Justice Studies (BAAJS) provides you with the skills and knowledge required to meet your career goals, whether you are seeking initial employment or promotion to more challenging positions.

Our degree program starts with our two-year Correctional Studies or Criminal Justice - Policing diploma. Your first two years of study will give you a comprehensive introduction to relevant course material and the criminal justice system. If you are currently employed in a justice related agency, your training and experience may reduce the number of courses you will have to take.

You'll build on this knowledge in your third year of study. You will learn to assess and deal with emerging issues through courses in community justice, ethics, behavioural management, victimology, management and leadership. In the fourth year of the program, you will apply your skills and abilities in a real-world justice environment. You'll spend your entire fourth year (two semesters) engaged in a Directed Field Study. You can choose to spend this study time at your current justice organization or agency, or we can help you find a suitable placement.

At the end of the program, you'll have a comprehensive, practical understanding of justice. Your skills and knowledge will serve you well and be in demand anywhere in Canada. All courses in the BAAJS are available through Online Learning.

CAREER OPPORTUNITIES
Your degree meets or surpasses entry level requirements for management and supervisory positions in municipal, provincial and federal jurisdictions.

You'll have the academic and practical background to work in a variety of advanced positions, including:

- Case Workers in provincial and federal justice organizations
- Parole Officers
- Probation Officers
- Supervisors/Managers in justice organizations

ADMISSIONS
New third-year students, or transfer students with advance standing through completion of a related diploma, are accepted into the program in the Fall (September) and Winter (January) terms for on-campus and online study and also in the Spring (May) term for online study.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

DIRECT FIELD STUDY PLACEMENT
The College dictates the legal terms and conditions governing the directive field study placement.

Applicants are advised they will be required to undergo a Criminal Record Check prior to enrolling in the placement. The existence of a criminal record may affect placement and future employment prospects. The agencies reserve the right to determine who is considered a suitable candidate.

ACADEMIC REQUIREMENTS
Students who have completed a Correctional Studies Diploma or Criminal Justice - Policing Diploma from Lethbridge College, or equivalent will be accepted directly into the Bachelor of Applied Arts in Justice Studies. Applicants with a related diploma/degree in a human service or justice related field such as child and youth care, law enforcement, addictions counselling, social work, criminology, or psychiatric nursing will also be admitted, and may be required to complete bridging courses in order to meet degree requirements.

Applicants with a diploma/degree require a minimum cumulative GPA of 2.0 or higher to be accepted directly into the Bachelor of Applied Arts in Justice Studies.

Applicants with post-secondary credentials and significant related work experience may apply to have their knowledge and skills assessed for transfer credit or prior learning credit in the Correctional Studies Diploma, the Criminal Justice - Policing Diploma, and the Bachelor of Applied Arts in Justice Studies.

Transfer students entering the program who receive advance credit must meet Lethbridge College's minimum residency requirements. This means that students may not receive advance credit for work completed at other institutions in excess of 75 percent of the total credits required for graduation from Lethbridge College.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Years 1 and 2:
See the Correctional Studies diploma or Criminal Justice - Policing diploma.

Year 3 Term I		Learning Credits
HUM 3350	Ethics in Justice (OL)	3
JUS 3351	Introduction to Research Methods in Justice (OL)	3
JUS 3352	Social Justice (OL)	3
Approved Electives (2 courses)		6
		15

Year 3 Term II		
HUM 3355	Critical Thinking (OL)	3
JUS 3388	Orientation to DFS (OL)	1.5
MGT 3370	Management in Justice Organizations (OL)	3
PSY 3350	The Psychology of Criminal Behaviour (OL)	3
Approved Electives (2 courses)		6
		16.5

LIST A ELECTIVES (Populations)
Select two of the following courses:

JUS 3350	Victimology (OL)	3
JUS 3357	Contemporary Youth Justice in Canada (OL)	3
JUS 3360	Indigenous Peoples & Culture In Justice (OL)	3
JUS 3378	Women in Justice (OL)	3
PSY 2277	Addictions Treatment	3

Justice Studies - Bachelor of Applied Arts

LIST B ELECTIVES (Operational Systems)
Select two of the following courses:

JUS 3369	Program Evaluation (OL)	3
JUS 3372	Directed Topics in Criminal Justice (OL)	3
JUS 3387	Crisis Management (OL)	3
MGT 3375	Leadership in Justice Organizations (OL)	3

A maximum of 6 unspecified credits at the third year (3000) level may be used.

Year 4
(Directed Field Study)

Note: All 4000 level courses are field study courses with academic components. Before enrolling in any of the following DFS courses, students are required to successfully complete JUS3388 (Orientation to DFS).

Core Courses

JUS 4452	Analysis of Professional Relationships	3
JUS 4453	Policies and Procedures in Justice	3
JUS 4454	Applied Conflict Management	3
*JUS 4455	Comparative Justice Systems	3
JUS 4461	Identified Population Study	3
		15

Elective Courses - 5 of the following

*JUS 4450	Directed Topics in Criminal Justice	3
JUS 4457	Community Involvement for Professionals	3
**JUS 4464	Applied Research 1	3
*JUS 4465	Diversity Seminar	3
**JUS 4468	Applied Research 2	3
JUS 4469	Program Development and Management	3
JUS 4474	Safety in the Justice Environment	3
JUS 4475	Critical Incident Analysis	3
JUS 4480	Community Relationship Analysis	3
JUS 4481	Strategic Planning/ Project Management	3
JUS 4482	Human Resources Management in Justice Organizations	3
JUS 4483	Applied Leadership in Justice Organizations	3
JUS 4484	Financial Management in Justice Organizations	3
		15

*DFS placement not required to take this course.
**DFS placement recommended but not required to take this course.

All courses in the first three years of the BAAJS are available through Online Learning and on campus. Directed Field Studies placement (4th Year) may be completed in any location in Canada, as all course work is online.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Bachelor of Applied Arts in Justice Studies degree.

Note: Employing agencies may have additional requirements for employment, such as a valid driver's licence, Standard First Aid and CPR. Students are encouraged to maintain their credentials in these areas so that they are current at time of graduation.

POST-GRADUATE PATHWAYS
Graduates of the BAAJS program may be eligible for acceptance into a variety of master's degree programs. See an academic advisor for more information.

School of Justice Studies

Correctional Studies	p. 67
Criminal Justice - Policing	p. 69

lethbridgecollege.ca/programs

Massage Therapy

Program Office: 403.320.3202 Ext. 3211 • massagetherapy@lethbridgecollege.ca

PROGRAM OVERVIEW
The Massage Therapy two-year diploma program focuses on the knowledge, skills and attitudes necessary for employment as a Massage Therapist. This program is designed to facilitate acquisition of knowledge and skills to be a professional in the health care field.

The field of massage therapy demands considerable personal commitment, professionalism and physical and emotional stamina. The curriculum includes significant amounts of study and practicum experience. Student performance in the practicum experience is closely monitored to ensure appropriate skill and personal development.

Interested students are advised of the demand on their personal and leisure time of such an integrated work/study approach.

CAREER OPPORTUNITIES
You will be prepared for entry-level positions as a massage therapist in a growing number of fields, including:
- Long-Term Care Facilities
- Massage Clinics and Spas
- Private Health Care Providers
- Sports Medicine Clinics

ADMISSIONS
New students are accepted into the Massage Therapy two-year diploma program in the Fall (September) term. All prospective candidates will normally be expected to attend a one-day program orientation prior to program commencement.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 12 biology

It is also recommended that students have working knowledge of word processing, spreadsheet and database software.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial “Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs”, all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each health care student at the time of initial enrollment and to ensure all health care students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers’ Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE’s may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Supplies such as linens and oils will be specified in class, and students are responsible for obtaining and maintaining them. Students are also required to purchase uniforms to be worn at all practice based experiences.

As part of the course program requirements, students are expected to book a massage with a registered massage therapist. This can cost anywhere from $40 - $100.

CURRICULUM

Year 1 Term I		Learning Credits
BIO 1160	Anatomy and Physiology I	3
CSP 1150	Medical Terminology (OL)	3
ENG 1156	Business Writing (OL)	3
MAS 1122	Practicum I	1.5
MAS 1140	Basic Massage	3
MAS 1152	Professional Practices for Massage Therapy	3
		16.5

Year 1 Term II		
ACC 1125	Service-Based Accounting	1.5
BIO 1146	Joints and Soft Tissues	3
BIO 1161	Anatomy and Physiology II	3
MAS 1125	Practicum II	3
MAS 1130	Pathology	3
MAS 1157	Massage Techniques I	3
		16.5

Massage Therapy

Year 2 Term I

MAS 2250	Advanced Massage	3
MAS 2253	Assessment for Massage Therapists I	3
MAS 2254	Special Populations I	3
MAS 2255	Practicum III	3
PED 2257	Therapeutic Exercise	3
		15

Year 2 Term II

BUS 1124	Service-Based Small Business Management	3
MAS 2257	Massage Techniques II	3
MAS 2258	Assessment for Massage Therapists II	3
MAS 2259	Practicum IV	3
MAS 2260	Special Populations II	3
MAS 2262	Integrated Practices in Massage Therapy	3
		18

(OL) indicates courses which are also available through Online Learning.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Massage Therapy diploma.

The Lethbridge College Massage Therapy Program meets Alberta requirements for Registered Massage Therapist (RMT) membership. Prospective students who reside outside of Alberta should research their provincial requirements for RMT membership.

TRANSFERS
Thompson Rivers University
Graduates of Massage Therapy are eligible to receive a maximum of 54 transfer credits into the TRU Bachelor of Health Science or a maximum of 60 transfer credits into the TRU Bachelor of General Studies.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
Graduates of the Massage Therapy diploma are eligible to be admitted into the University of Lethbridge's Post-Diploma Bachelor of Health Sciences degree program for completion of their Bachelor of Health Sciences degree.

University of Regina
Graduates of Massage Therapy who achieved a minimum grade of 60% (GPA) are eligible to receive 60 credits towards a Bachelor of Kinesiology -Human Kinetics Major. For more information, please view www.uregina.ca/kinesiology

School of Health Sciences

Bachelor of Nursing	p. 49
Bachelor of Nursing - After Degree	p. 52
Practical Nursing	p. 108
Therapeutic Recreation - Gerontology	p. 112

lethbridgecollege.ca/programs

Medical Device Reprocessing

Program Office: 403.320.3310 • csp@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

PROGRAM OVERVIEW
Sterile supplies are vital to safe medical practice. In our intensive 26-week program, you will learn how to handle, clean, assemble, function test and package surgical instruments and medical equipment. You will also develop an understanding of how microbiology, infection control, and aseptic technique related to the field of medical device reprocessing.

This program will provide the foundation to becoming a certified Medical Device Reprocessing Technician.

CAREER OPPORTUNITIES
As a trained Medical Device Reprocessing Technician, you can work in a variety of medical environments, including:
- Day Procedure Facilities
- Hospital Central Processing Facilities
- Hospital Operating Rooms
- Private Health-Care Providers
- Surgical Centers

ADMISSIONS
New students are accepted into this program for the Fall (September) term only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial "Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs", all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities such as Medicine Hat. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year I Term I		Learning Credits
BIO 1162	Microbiology (OL)	3
ENG 1154	Writing for Technologists (OL)	3
COM 1162	Interpersonal Relationships & Communications (OL)	3
CPU 1151	Introduction to Computers (OL)	1.5
CSP 1150	Medical Terminology/ Anatomy And Physiology (OL)	3
CSP 1160	Surgical Instrument Processing (OL)	6
		19.5

Year I Term II		
CSP 1142	MDR Practicum (400 hours)	6
		6

(OL) indicates courses which are also available through Online Learning.

Some courses are also available on-campus. Please refer to the online Academic Timetable for course availability.

Important Notes:
1. BIO-1162 has an on-campus lab experience to support knowledge/skill development. Attendance is required.
2. CSP-1142 is a 10-week, full-time, face-to-face practicum that will occur in Lethbridge and surrounding rural placements. Contact the Program Chair, upon acceptance into the program, if you would like alternate practicum placements considered.

GRADUATION
Upon successful completion of all program requirements, students will be awarded a certificate in Medical Device Reprocessing.

School of Allied Health

Health Care Aide	p. 96
Unit Clerk Training	p. 115

lethbridgecollege.ca/programs

Multimedia Production

Program Office: 403.320.3468 • multimedia@lethbridgecollege.ca

PROGRAM OVERVIEW
It all starts with a passion for communication and the desire to use current interactive technologies to enrich the ways in which we communicate. Today, multimedia is often referred to as “the new media”, but it’s only `new’ in the sense that technology has given us new opportunities for communicating, both verbally and visually.

Science fiction writer Arthur C. Clark once made the observation that for those who don’t grasp the underlying technology, any sufficiently advanced technology is indistinguishable from magic. Multimedia content creators are the masters of that kind of magic. Behind those moments of magic that you experience on a variety of devices every day, there are real people with real, industry-level skills in web and interactive programming, layout and design, 2-D and 3-D animation, and video and audio editing, and these are the people who routinely make the magic happen – on the largest stage ever conceived!

Along with skill-development in new media technologies, you will learn how to identify and develop commercially viable ideas, pitch your ideas to employers or prospective clients, and plan and manage projects. You will be given an opportunity to independently research and develop a capstone project in one of the following areas of applied concentration: web and interactive programming, video and motion graphics, or e-learning technologies. In your final semester, you will gain hands-on industry experience through a 120-hour practicum.

If you have the kind of mind that moves quickly from the `mystifying’ experience itself to wondering how it was done and wanting to do it yourself, then the Multimedia Production Program at Lethbridge College could put you on the path to a career in the new media industry.

CAREER OPPORTUNITIES
Our Multimedia Production diploma will prepare you for entry-level positions in a wide range of fields, including:

- 2D/3D Animator
- Business Training Developer
- Freelancer
- Front-end Developer
- Interactive Advertising/Marketing Specialist
- Interactive Narrative Designer
- Mobile App Developer
- Motion Graphics Specialist
- New Media E-Learning Specialist
- New Media Entrepreneur
- Social Media Strategist
- User Experience Designer
- Web and Interactive Media Designer
- Web and Interactive Programmer/ Developer
- Web Game/Simulation Designer/ Developer

ADMISSIONS
New students are accepted into the Multimedia Production program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

Multimedia Production assumes professional standards for research and writing. All program assignments must be typed. Lack of keyboarding skills could inhibit achievement. Applicants who enter and complete the Multimedia Production program without a high school diploma, or equivalent may not be eligible for advanced placement in college and university diploma and degree programs under current and future transfer agreements.

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to supply their own device with required minimum specifications. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term I		Learning Credits
CMM 1153	Digital Audio	3
CMM 1156	Digital Video	3
CMM 1163	Scripting for Multimedia	
DES 1155	Graphic Design	3
	& the Web	3
RSR 1160	Research & Writing for New Media	3
		15

Year 1 Term II		
CAP 1158	Communication Process	3
OR		
COM 1162	Interpersonal Relationships and Communication (OL)	3
CMM 1165	Coding with Web Standards	3
CMM 1185	The Principles of Animation	3
DES 1156	Web Graphics, Layout, and Interface Design	3
WRI 1150	Writing for Interactive Media	3
		15

Multimedia Production

CMM 2285	3D Modeling and Animation with Maya	3
CMM 2288	Programming Rich-Media Applications	3
CMM 2291	Professional Foundations	3
RSR 2257	Video Graphics and Compositing	3
RSR 2270	Interactive Project	3
		15

Year 2 Term II

BUS 1124	Service-Based Small Business Management	3
CMM 2284	Professional Portfolio	3
CMM 2292	Proseminar	3
CMM 2293	Capstone Project	3
FWK 2253	Managed Internship	3
		15

GRADUATION
Upon successful completion of all program requirements, students are awarded a Multimedia Production diploma.

TRANSFERS
Athabasca University
Graduates of Multimedia Production will receive two years' credit towards a Bachelor of Professional Arts in Communications Studies major from Athabasca University, before completing an additional 60 credits of the university's 120-credit program.

Red Deer College
The Applied Degree in Motion Picture Arts at Red Deer College enables students who have completed two years of related post-secondary studies (or equivalent) to expand and apply their training to the rapidly growing motion picture, television and multimedia industries. The program has two streams: Production Stream and the Acting Stream. Subject to admission requirements. Please contact creativearts@rdc.ab.ca for more information.

Royal Roads University
Graduates of the Multimedia Production diploma are eligible for full block transfer into the third year of the Bachelor of Arts in Professional Communication provided all appropriate prerequisite qualifications and all other entrance criteria are met as per program admission requirements (refer to Royal Roads website: www.royalroads.ca) and space remains available in the program. Entrance to all programs at Royal Roads University is on a competitive basis.

University of Calgary
Graduates of the Multimedia Production diploma are eligible to enter into the Bachelor of Arts in Communication Studies.

School of Media and Design

Architectural Animation Technology	p. 47
Digital Communications and Media	p. 73
Interior Design Technology	p. 97
Virtual and Augmented Reality	p. 116

lethbridgecollege.ca/programs

Natural Resource Compliance

Program Office: 403.382.6991 • envisci@lethbridgecollege.ca

PROGRAM OVERVIEW
Combining resource management and conservation law, this two-year diploma offers learners a solid foundation in conservation law enforcement. Students will develop an understanding of the fundamentals of detection and investigation of natural resource violations. With a blend of lectures, labs, and field trips, students will develop the confidence to perform entry level work in the conservation enforcement field. Learners completing the diploma in Natural Resource Compliance are also able to continue their education by entering directly into the third year of the Bachelor of Applied Science in Conservation Enforcement degree program.

CAREER OPPORTUNITIES
- Conservation Officer
- Environmental Investigator/Inspector
- Fish and Wildlife Officer
- Fishery Officer
- Municipal Police Officer
- Park Patrol Officer
- Park Ranger
- Pollution Control Officer
- Resource Management Officer
- RCMP Officer
- Wildlife Investigator

ADMISSIONS
New students are accepted into the Natural Resource Compliance program for the Fall term only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 11 biology
- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

Note: Admission is competitive. Competitive marks will be based on the average of grades in Grade 12 math and English and Grade 11 biology.

Basic computer literacy in the use of the Internet, e-mail, word processing and fundamental processes of spreadsheets is required for the student to be successful in this program. Students lacking these skills are strongly urged to complete a basic computer literacy course prior to entering this program.

EMPLOYABILITY
- Natural Resource Law Enforcement Officer positions have specific physical requirements such as vision, hearing and physical fitness. The specific requirements differ with each agency. It is the applicant's responsibility to confirm that they meet the requirements of the agencies with which they hope to work.
- Persons with a criminal record may have difficulty competing for jobs as Conservation Enforcement Officers in Canada.
- Employers often require that students hold a valid Standard First Aid or Wilderness First Aid Certificate and/or a CPR Certificate to be eligible for seasonal and/ or permanent employment. Students are encouraged to obtain these certificates either prior to entering the program or during the first term.
- A number of workshops and short courses sponsored by various agencies are available on evenings and weekends. Students are encouraged to attend these sessions to enhance their credentials for employment.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

FIELD STUDIES SUPPLIES
Students on field studies are expected to provide their own equipment and supplies. This includes: warm sleeping bag, ground sheet and pad, tent may be required (notification will be given at orientation), back pack for gear, adequate clothing for cold/wet weather, hiking boots, work gloves, cooking and eating gear (may be shared), food, binoculars, digital camera (standard feature), orienteering compass, chest waders, field equipment vest (recommended), "write-in-the-rain" treated field notebook/surveyors book, water bottle, sunscreen, safety glasses (3rd year), 30 cm metric steel ruler. Field studies schedules are dependent on many variables and may require students to participate on weekends. All program field studies require mandatory attendance.

OTHER REQUIRED SUPPLIES
Available from Lethbridge College Bookstore: Lab coat, safety glasses, Douglas protractor, "write-in-the-rain" field notebook/surveyors book, 16X hand lens, dissection kit, metric triangular scale with 1:20, 1:25, 1:50, 1:75, 1:100 and 1:125 graduations.

Available from Sporting, Hardware and Office Supply Stores: Nexus Type 115 or Silva Ranger compass (with declination adjustment screw), clipboard, 4 GB or higher USB memory stick, chest waders, scientific calculator ($15-$30 range), 12 or more coloured pencils (pencil crayons), binoculars (8X40 or 10X50 magnification), 30 cm metric steel ruler.

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202, Extension 5594.

CURRICULUM

Year 1 Term I		Learning Credits
*BIO 1172	Ecology	3
ENG 1155	Scientific and Technical Writing	3
*GEO 1156	Earth Sciences	3
LAW 1161	Introduction to Natural Resource Law	3
STS 1155	Descriptive Statistics	3
		15

Year 1 Term II		
*BIO 1167	Botany	3
*BIO 1168	Zoology	3
DCE 2255	Ethics and Career Development	3
*ENV 2265	Parks and Recreation Operations	3
*RRM 1197	Spatial Information Techniques	3
		15

Natural Resource Compliance

Year 2 Term I

*CJP 2269	Patrol Procedures	3
LAW 2264	Courtroom Procedures	3
*RRM 2250	Grassland and Forest Resources	3
RRM 2298	Conservation Biology	3
*RRM 2299	Fire Management	3
		15

Year 2 Term II

*CEN 2269	Field Investigation Techniques	3
CJP 2267	Natural Resource Legislation	3
COM 2263	Interpersonal Skills in Enforcement	3
*RRM 2258	Principles of Wildlife Biology	3
*RRM 2259	Principles of Fishery Science	3
		15

*Indicates courses with a field study component.

Students will be expected to complete non-credit environmental field techniques courses as part of the requirements to complete the program. Courses such as bear safety, firearms safety, pleasure craft operator's card and boat operations will occur as part of field trip season activities. Students will be responsible for the fees associated with these courses. Prior valid training possessed by students will be considered for recognition.

GRADUATION
Upon successful completion of the program, students are awarded a Natural Resource Compliance diploma.

TRANSFERS
Interested students can obtain further information on these partnerships from the School of Environmental Sciences Chair. Students wish to continue studies at other institutions must meet the entrance requirements of that institution.

Lethbridge College
Graduates of the Natural Resource Compliance diploma may be eligible for up to 60 credits towards a Bachelor of Applied Science in Conservation Enforcement or a Bachelor of Applied Science in Ecosystem Management. Details regarding these programs can be found in the academic calendar or on the Lethbridge College website.

Royal Roads University
Graduates of the Natural Resource Compliance diploma are eligible for full block transfer into the Bachelor of Science in Environmental Practice and the Bachelor of Arts in Environmental Practice. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science and the Bachelor of Science in Environmental Management. Two additional courses in math (calculus, linear algebra, physics), and two additional university level courses need to be completed upon arrival.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Northern BC
Graduates of Natural Resource Compliance diploma are eligible for block transfer into the Bachelor of Science Natural Resources Management, NRM Forest Ecology Management major. For more information, please visit https://www.unbc.ca/forestry/transition-laddering-agreements.

School of Environmental Sciences

Conservation Enforcement	p. 65
Ecosystem Management	p. 77
Environmental Assessment and Restoration	p. 84
Renewable Resource Management	p. 110

lethbridgecollege.ca/programs

Pathway to English and Academic Culture

Program Office: 403.329.7269 • esl@lethbridgecollege.ca

PROGRAM OVERVIEW
The Pathway to English and Academic Culture allows you to learn English in a Languages Canada approved program while meeting most Lethbridge College post-secondary program language requirements. Lethbridge College's English Language Centre has been teaching English to students from around the world, as well as to newcomers to Canada, for almost 50 years. Our mission is to provide you with the opportunity to excel in English, while experiencing Canadian academic cultural expectations and immersing yourself in North American life. You can study year-round, on a part-time or full-time basis and enroll throughout the semester. You will learn in a friendly and welcoming environment where you can better achieve your educational, career, and/or personal goals.

Lethbridge College offers excellent services to support you during your time in Lethbridge. On-campus accommodation lets you live in a modern college residence with other students from across the country and from around the world. Alternatively, you can choose to stay with a Canada Homestay Network family which gives you the opportunity to live with a local family and immerse yourself in Canadian culture.

Lethbridge is a small, safe city with a diverse and friendly population. The recreational opportunities the city and surrounding area offers are abundant. You can swim in one of the many city pools, stroll through the rose garden, picnic in the park, or golf on some of the province's most spectacular courses. If you wish, you can visit one of our quality sporting facilities to watch hockey, baseball, softball, or soccer teams in action. The city also hosts many concerts and theatrical productions by world-famous musicians and artists. Lethbridge provides a central location from which to see some of the most beautiful attractions and scenery that Alberta has to offer. With just a short drive you can experience natural wonders such as the Rocky Mountains, the foothills, the prairies and badlands and many more. Southern Alberta has plenty of wonders for you to explore and enjoy. Whatever your interests or whatever the season, you will be sure to find what you are looking for!

For an excellent life and learning experience, choose the English Language Centre, specialists in English language learning since 1970. Our innovative, award-winning programs, TESL-certified instructors, small classes, and friendly, helpful staff will help you succeed.

ADMISSIONS
New students are accepted into the English as a Second Language program for Fall (September), Winter (January), or Spring-Long (May) terms. Dependent on your status in Canada, you may study for as little as four weeks or longer in any of our term programs. All students are given a placement test for all skill areas at the beginning of their studies; our programming follows the nationwide Canadian Language Benchmarks (language.ca) for assessments, and therefore can ensure quality placement and accurate assessments throughout each semester.

YOUR INVESTMENT
Fees vary between programs. For fee information, please contact the English Language Centre at 403.329.7269 or esl@lethbridgecollege.ca or www.englishtoo.ca

CURRICULUM
English language classes are offered for 20 hours per week. The average class size is 16 students. We offer all levels, from Beginner to Advanced. All classes focus on reading, writing, speaking, listening, and grammar. You will learn English that relates to everyday communication and English that is specific to Canadian Academic Culture. You will also have the opportunity to participate in activities, field trips, speakers' mornings, use a computer lab, and receive academic and career counseling to help you achieve your goals. You will receive a Credential of Academic Achievement upon completion of your ESL course.

Upon completion of the Pathway to English and Academic Culture, you will have met the English Language requirements to apply to one of our hands-on, career focused programs, such as: Business Administration, Culinary Arts, University Transfer Programs, Computer Information Technology, Environmental Science, Early Childhood Education, Engineering Technology, Nursing, and much more.

Police Cadet Training

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

PROGRAM OVERVIEW
The Police Cadet Training program is a competency-based model which provides the foundational knowledge and skills required of newly deployed front-line officers. Collaboratively developed with police and other justice community partners, the program leverages scenario-based learning and experiences to develop the competencies required of police and other public safety agencies.

ADMISSIONS
Flexible – Fall, Winter, or Spring term depending on police agency requirements.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
All admission requirements are stipulated by sponsoring police service or related agency.

NON-ACADEMIC REQUIREMENTS
Applicants are required to undergo a pre-screening process prior to application. Results of all required testing will be reviewed by the applicable Police Chief or Dean or designate to determine eligibility for the program. The pre-screening process may include the following requirements:

- Minimum age 18 at time of application
- Must be Canadian citizen or permanent resident
- Must hold valid driver's license with maximum of 5 demerits
- No criminal conviction for which a pardon has not been granted
- Completion of medical examination indicating applicant is fit for police duty
- Proof of completion (no older than 6 months) of A-PREP or PARE fitness testing to required standard for police officers in Alberta
- Must complete vision and hearing testing with scores that meet or exceed the minimum requirement for Alberta policing agencies
- Must provide proof of Standard First Aid and CPR certification valid at time of application and for duration of training program
- Completion of Criminal Record Check and Vulnerable Sector Search with no findings of guilt
- Proof of achieving a score of 70% or better on Alberta Police Cognitive Abilities Test (APCAT)
- Proof of achieving a score of 55% or better on Alberta Communications Test (ACT)
- Satisfactory completion of behavioural descriptive interview
- Satisfactory completion of full background check
- Three letters of reference, not from family members
- Successful completion of police psychological testing
- Successful completion of polygraph interview based on content of Personal Disclosure form

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

		Learning Credits
PCD 1112	Cadet Physical Wellness Training	1.5
PCD 1113	Reasonable Officer Response	6
PCD 1114	Law Enforcement Firearms	3
PCD 1115	Emergency Vehicle Operations	1.5
PCD 1121	Client-Centered Service	3
PCD 1122	Emerging Public Safety Issues	1.5
PCD 1131	Criminal Code Offences I	1.5
PCD 1132	Criminal Code Offences II	1.5
PCD 1133	Provincial Offences	1.5
PCD 1134	Criminal Code Property Offences	3
PCD 1135	Crimes Against Persons I	3
PCD 1136	Crimes Against Persons II	1.5
PCD 1137	Criminal Code Driving Offences	3
PCD 1141	Economic Crime	1.5
PCD 1142	Sudden Death Investigations	1.5
		34.5

GRADUATION
Upon successful completion of all program requirements, students are awarded a certificate in Police Cadet Training.

School of Public Safety

Commercial Vehicle Enforcement | p. 62

lethbridgecollege.ca/programs

Practical Nursing

Program Office: 403.320.3211 • practicalnursing@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

PROGRAM OVERVIEW
The Practical Nursing program provides students with the education to meet the Entry to Practice Competencies required upon entry into the Licensed Practical Nurse profession, as identified by the College of Licensed Practical Nurses of Alberta.

The program incorporates the knowledge, skills, judgements and personal attributes through theory, labs, and clinical experiences.

The Practical Nursing program consists of four (4) terms of theory, labs and clinical experiences plus an additional fifth term that is a preceptor-led clinical experience.

CAREER OPPORTUNITIES
Upon successful completion of your diploma and passing the national Practical Nursing exam, career opportunities exist in a variety of health care settings such as acute care, long-term care, and community agencies.

Practical Nurses are part of an inter-professional collaborative team and play a primary role in managing the needs and complexity of the client.

ADMISSIONS
New students are accepted into this program for the Fall (September) term only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):

- 60 percent minimum in English Language Arts (ELA) 30-1 or 70 percent in ELA 30-2;
- 60 percent minimum in Math 20-1 or a higher level math;
- 60 percent minimum in Biology 30 or C- in BIO-1160 (Anatomy and Physiology I) at Lethbridge College, or equivalent.

Note: Admission is competitive and is based on a point system for percentages in biology, math and English. More points will be awarded for higher grades and for the higher levels of math and English (i.e. 30-1). The points are then cumulative to determine placement for competitive entry.

ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS FOR PRACTICAL NURSING PROGRAM
In addition to the academic requirements, if English is not your first language, English Language Proficiency (ELP) must be demonstrated within the last two (2) years prior to the application. Acceptable evidence of ELP may be one of the following:

- IELTS Academic with a minimum band score of 6.5 in speaking, 6.5 in listening, 6.0 in reading, and 6.5 in writing
- TOEFL Internet-based test score with a minimum score of 22 in speaking, 23 in listening, 21 in reading, and 25 in writing
- Transcripts demonstrating successful completion of three (3) years of full-time secondary education at a school where English was the principal language of instruction
- Transcripts demonstrating successful completion of one (1) year of full-time post-secondary education at a school where English was the principal language of instruction

Note: Meeting the English Language Proficiency requirement does NOT exempt the applicant from meeting the English academic admission requirement for entry to this program.

HEALTH CARE AIDE PATHWAY
The Health Care Aide pathway is designed to recognize prior learning of individuals who have successfully completed a recognized Health Care Aide certificate program. Applicants will be granted prior learning credit for PNG-1146 and PNG-1147 based on the following requirements:

- Successful completion of a recognized Alberta provincial standard Health Care Aide certificate program within the last five (5) years;
- Documented evidence of a minimum of 1000 hours working as a paid Health Care Aide within the last two (2) years in a health care facility.

Note: Applicants must still meet admission and competitive academic requirements.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial “Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs”, all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers’ Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE’s may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

Practical Nursing

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
BIO 1156	Wellness & Health Issues (OL)	3
BIO 1160	Anatomy & Physiology I (OL)	3
ENG 1150	English Composition (OL)	3
COM 1162	Interpersonal Relationships & Communication (OL)	3
PNG 1145	Health & the Practical Nurse (Theory I)	3
PNG 1146	Basic Nursing Skills (Practice I)	3
PNG 1147	PN Clinical I	1.5
		19.5

Year 1 Term II		
BIO 1161	Anatomy & Physiology II (OL)	3
PNG 1148	Health and Individuals (Theory II)	3
PNG 1149	Intermediate Nursing Skills (Practice II)	3
PNG 1154	PN Clinical II	3
PNG 1159	Pharmacology	3
PNG 1167	Health Assessment	3
		18

Year 2 Term I		
PNG 2251	Health and Illness (Theory III)	3
PNG 2252	Senior Nursing Skills (Practice III)	3
PNG 2253	PN Clinical III	3
PNG 2254	Mental Health Nursing	3
PNG 2256	Pathophysiology	3
PSY 1170	Human Development Across the Lifespan (OL)	3
		18

Year 2 Term II		
PNG 2255	Professional Growth	3
PNG 2257	Health and Families (Theory IV)	3
PNG 2259	PN Clinical IV	6
PNG 2260	Full Scope of Practice Skills (Practice IV)	3
PNG 2267	Community Nursing	3
SOC 1167	Sociology of Aging (OL)	3
		21

Year 2 Term III		
PNG 2277	Comprehensive Practicum	6
		6

(OL) indicates courses which are also available through Online Learning.

General Requirements
All specialized courses in one term must be successfully completed to advance to the next term's specialty courses.

To remain in good standing, students must attain a minimum term grade point average (GPA) of 1.7 in all Arts and Science courses and a minimum term GPA of 2.3 in all nursing related courses.

A final minimum grade of C is required in all PNG (nursing) courses to pass the course. A student who receives a grade of C- or lower must repeat the course prior to proceeding in the program.

Students who have a gap in Practical Nursing studies must provide 4 months written notice to the Program Chair prior to the term they desire to continue in or return to for completion.

Students required to repeat any PNG (nursing) course, must meet with the Program Chair to discuss a progress plan.

Students who are unsuccessful in passing any course must successfully complete COL-1130 (Achieving College Success).

Important Notes:
1. Students seeking Prior Learning Assessment & Recognition (PLAR) should contact the Program Chair immediately upon accepted admission to the program to allow sufficient time for assessment.
2. Students receive a program handbook upon acceptance into the program outlining the program's policies and expectations. It is very important for learners to review and understand these requirements.
3. Students are encouraged to complete the following non-nursing courses prior to the first term of the program: BIO-1156, BIO-1160, BIO-1161, COM-1162, ENG-1150, PSY-1170, and SOC-1167.

GRADUATION
To be eligible to graduate, students must attain a passing overall program grade point average (GPA) of 1.7.

All requirements must be met within five years of the first nursing course used towards the diploma.

Upon successful completion of all program requirements, students are awarded a diploma in Practical Nursing.

Graduates are eligible for licensure through the College of Licensed Practical Nurses of Alberta upon payment of a fee and successfully passing a national practical nurse examination.

TRANSFERS
Thompson Rivers University
Graduates of Practical Nursing are eligible to receive a maximum of 57 transfer credits into the TRU Bachelor of Health Science or a maximum of 60 transfer credits into the TRU Bachelor of General Studies.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
Graduates of the Practical Nursing diploma are eligible to be admitted into the University of Lethbridge's Post-Diploma Bachelor of Health Sciences degree program for completion of their Bachelor of Health Sciences degree.

Renewable Resource Management

Program Office: 403.382.6991 • envisci@lethbridgecollege.ca

PROGRAM OVERVIEW
Collecting and interpreting environmental information forms the foundation of natural resource management. Our rigorous two-year diploma program in Renewable Resource Management will provide you with the applied science skills you'll need to make a career in the sustainable management of natural resources.

Our intensive blend of theory and hands-on practice gives you a comprehensive grounding in fields ranging from zoology and plant taxonomy to statistics, aerial photography interpretation and Geographic Information Systems (GIS). You'll understand the application of science and be ready to demonstrate your abilities through extensive fieldwork each term. In the field studies, you'll assess fish populations by gill netting, use telemetry to measure wildlife movements, use GIS to interpret grazing patterns and learn how to apply forest silvicultural practices, among other things. Our diploma program gives you the tools to build a successful career in the sustainable management of natural resources.

CAREER OPPORTUNITIES
Our diploma program will prepare you for work in a wide variety of environmental and natural resource management career opportunities, including employment as:
- Biological Technician
- Environmental Technician
- Field Research Technician
- Resource Management Technician

Employment is found with government agencies, private environmental organizations, environmental (non-governmental) consulting firms, and natural resource industries (oil, gas, mining, and forestry).

ADMISSIONS
New students are accepted into the Renewable Resource Management two-year diploma program for the Fall term (September) only.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- Grade 11 biology
- Grade 11 chemistry
- Grade 12 math (equivalent to Alberta's Math 30-2 or a higher level math)

Basic computer literacy in the use of the Internet, e-mail, word processing, and fundamental processes of spreadsheets is required for the student to be successful in this program. Students lacking these skills are strongly urged to complete a basic computer literacy course prior to entering this program.

Employers often require that students hold a valid Standard First Aid or Wilderness First Aid Certificate and/or a CPR Certificate to be eligible for seasonal and/or permanent employment. Students are encouraged to obtain these certificates either prior to entering the program or during the first term.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

Students are responsible for the cost of the field trips relating to this program.

SUPPLIES FOR FIELD STUDIES
Students on field studies are expected to provide their own equipment and supplies. This includes: warm sleeping bag, ground sheet and pad, tent may be required (notification will be given at orientation), back pack for gear, adequate clothing for cold/wet weather, hiking boots, work gloves, cooking and eating gear (may be shared), food, binoculars, digital camera (standard feature), orienteering compass, chest waders, field equipment vest (recommended), "write-in-the-rain" treated field notebook/surveyors book, water bottle, sunscreen, 30 cm metric steel ruler.

OTHER REQUIRED SUPPLIES
Available from the Lethbridge College Bookstore: Lab coat, safety glasses, Douglas protractor, "write-in-the-rain" treated field notebook/surveyors book, 16X hand lens, dissection kit, metric triangular scale with 1:20, 1:25, 1:50, 1:75, 1:100 and 1:125 graduations

Available from sporting, hardware and office supply stores: Nexus Type 115 or Silva Ranger compass (with declination adjustment screw), clipboard, 4 GB or higher USB memory stick, chest waders, scientific calculator ($15 - $30 range), 12 or more colored pencils (pencil crayons), binoculars (8 X 40 or 10 X 50 magnification), 30 cm metric steel ruler.

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202, Extension 5594.

CURRICULUM

Year 1 Term I		Learning Credits
*BIO 1167	Botany	3
*BIO 1168	Zoology	3
*GEO 1166	Physical Geology	3
LAW 1150	Introduction to Environmental Law	3
*RRM 1197	Spatial Information Techniques	3
		15

Year 1 Term II		
*BIO 1170	Plant Systematics	3
*BIO 1172	Ecology	3
ENG 1155	Scientific and Technical Writing	3
GEO 1165	Geographic Information Systems	3
STS 1155	Descriptive Statistics	3
		15

Renewable Resource Management

Year 2 Term I

*RRM 2256	Rangeland Management	3
*RRM 2258	Principles of Wildlife Biology	3
*RRM 2259	Principles of Fishery Science	3
*RRM 2264	Forest Management	3
RRM 2298	Conservation Biology	3
		15

Year 2 Term II

*RRM 2252	Water Resources	3
*RRM 2253	Soil Resources	3
*RRM 2291	Wildlife Habitat Management	3
*RRM 2293	Fish Habitat Management	3
*RRM 2299	Fire Management	3
		15

*Indicates courses with a field study component

Special note about field studies:
Students are off-campus completing field studies during most of September and April. Due to scheduling conflicts it is extremely difficult to take Year 1 and Year 2 courses simultaneously.

Students are advised to complete all Year 1 courses before proceeding to Year 2, and all Year 2 courses before enrolling in Year 3 courses (for related post-diploma certificate or degree programs).

In the Fall term, field studies are in September, while in the Winter term, field studies are scheduled in April. Field studies schedules are dependent on many variables and may require students to participate on weekends or on statutory holidays. All program field studies are mandatory.

Students will be expected to complete non-credit environmental field techniques courses as part of the requirement to complete the program. Courses such as bear safety, firearms safety, pleasure craft operator's card and boat operations will occur as part of field trip season activities. Students will be responsible for the fees associated with these courses. Prior valid training possessed by students will be considered for recognition.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Renewable Resource Management diploma.

TRANSFERS
Interested students can obtain further information on these partnerships from the School of Environmental Science Chair. Students wishing to continue studies at other institutions must meet the entrance requirements of that institution.

Athabasca University
Graduates of the two-year Renewable Resource Management diploma program receive 30 credits towards a three or four-year Bachelor of Management (Post-Diploma) Degree.

Griffith University, Australia
Renewable Resource Management diploma graduates may be eligible to enter into the fourth semester of the Bachelor of Environmental Sciences. Please contact credit@griffith.edu.ca for more information.

Lethbridge College
Graduates of the Renewable Resource Management diploma may be eligible for up to 60 credits towards a Bachelor of Applied Science in Ecosystem Management or a Bachelor of Applied Science in Conservation Enforcement. Details regarding these programs can be found in the academic calendar or on the Lethbridge College website.

Northern Alberta Institute of Technology (NAIT)
Graduates of the Renewable Resource Management diploma program with a minimum grade point average of B- or 2.7 on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology in Technology Management) degree program. Applicants for transfer of credit under this Agreement shall complete all of the requested application procedures of NAIT including, but not limited to, written statements outlining personal objectives, career goals, letters of reference, work experience and community involvement, and such other information as may be requested and used by NAIT to determine whether the applicant complies with the requirements as set out or intended.

Royal Roads University
Graduates of the Renewable Resource Management diploma are eligible for full block transfer into the Bachelor of Science in Environmental Practice and the Bachelor of Arts in Environmental Practice. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science and the Bachelor of Science in Environmental Management. Two additional courses in math (calculus, linear algebra, physics), and two additional university level courses need to be completed upon arrival.

University of Alberta
Graduates of the two-year diploma in Environmental Assessment and Restoration or Renewable Resource Management receive up to 60 credits towards a Post-Diploma Bachelor of Science degree in Environmental and Conservation Sciences, Land Reclamation program. Students must meet the U of A's entrance requirements.

University of Calgary
Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
Graduates of the two-year diploma program in Environmental Assessment and Restoration or Renewable Resource Management receive two years' credit toward a post-diploma Bachelor of Science Degree in Environmental Science from the University of Lethbridge.

University of Northern BC
Graduates of Renewable Resource Management diploma are eligible for block transfer into the Bachelor of Science Natural Resources Management, NRM Forest Ecology Management major. For more information, please visit https://www.unbc.ca/forestry/transition-laddering-agreements.

University of Regina
Graduates of Renewable Resource Management are eligible to receive up to 60 credits towards the Bachelor of Science Environmental Biology. Students must have a minimum of a 60% average and have Pre-Calculus 30 or equivalent. For more information, please visit http://urconnected.uregina.ca/.

Therapeutic Recreation - Gerontology

Program Office: 403.320.3202 Ext. 3211 • trg@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

PROGRAM OVERVIEW
Therapeutic Recreation Specialists are part of an inter-professional collaborative health care team and play a primary role by using leisure and recreation to promote and facilitate optimal health and wellness of individuals with illnesses and disabling conditions.

The Therapeutic Recreation – Gerontology two-year diploma program provides students with the knowledge and skills necessary for employment in the therapeutic recreation profession. The program combines foundational knowledge in theory with practice to provide the fundamentals for a Therapeutic Recreation Specialist. The program incorporates knowledge, skills, critical reasoning and personal attributes through theory classes, skills lab, and practice in the field.

The Therapeutic Recreation – Gerontology program consists of four (4) terms of theory classes and skills lab. Students learn how to plan and deliver therapeutic recreation services which include functional intervention, leisure education and recreation participation programming. This knowledge will be balanced with a thorough understanding of the sociological, physiological and psychological process of aging. A practice-based experience is positioned at the end of term two and the end of term four to support the integration of knowledge into practice. All courses in the Therapeutic Recreation – Gerontology program are offered on campus as well as through Online Learning.

At the end of the program, graduates will have a diploma in Therapeutic Recreation – Gerontology; a comprehensive, practical understanding of therapeutic recreation, and a specialization in gerontology.

CAREER OPPORTUNITIES
Your diploma in Therapeutic Recreation - Gerontology will prepare you to work in many settings, including:
- Community-based programs
- Group homes
- Hospital
- Lodges
- Long term care
- Mental health programs
- Rehabilitation programs
- Seniors day programs
- Senior centres
- Supportive living

ADMISSIONS
New students are admitted into the Therapeutic Recreation - Gerontology campus-based program in the Fall (September) term. New students completing the program through Online Learning can be admitted in the Fall (September) or Winter (January) terms. Due to sequencing of courses, Online Learning students admitted in Winter term will not be able to complete the program in two years.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
In addition to meeting the general admission requirements indicated in the Admission section of this calendar, applicants to this program must also satisfy the following specific course requirements (or equivalencies):
- 60 percent minimum in English Language Arts (ELA) 30-1 or 70 percent in ELA 30-2;
- Grade 12 biology.

ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS FOR THERAPEUTIC RECREATION –GERONTOLOGY PROGRAM
In addition to the academic requirements, if English is not your first language, English Language Proficiency (ELP) must be demonstrated within the last two (2) years prior to the application. Acceptable evidence of ELP may be one of the following:
- IELTS Academic with a minimum band score of 6.5 in speaking, 6.5 in listening, 6.0 in reading, and 6.5 in writing
- TOEFL Internet-based test score with a minimum score of 22 in speaking, 23 in listening, 21 in reading, and 25 in writing
- Transcripts demonstrating successful completion of three (3) years of full-time secondary education at a school where English was the principal language of instruction
- Transcripts demonstrating successful completion of one (1) year of full-time post-secondary education at a school where English was the principal language of instruction

Note: Meeting the English Language Proficiency requirement does NOT exempt the applicant from meeting the English academic admission requirement for entry to this program.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.). As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program.

As per the provincial “Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs”, all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each health care student at the time of initial enrollment and to ensure all health care students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers’ Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

Therapeutic Recreation - Gerontology

PBE sites will include Lethbridge and may include surrounding rural communities. PBE's may include day, evening, and/or weekend schedules. Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
COM 1162	Interpersonal Relationships and Communications (OL)	3
ENG 1150	Composition (OL)	3
PSY 1177	Psychology of Aging (OL)	3
TRG 1150	Introduction to Therapeutic Recreation (OL)	3
TRG 1164	Leadership Theory (OL)	3
		15

Year 1 Term II		
BIO 1152	Physiology of Aging (OL)	3
COM 1170	Helping Relationships (OL)	3
PSY 1170	Human Development Across the Lifespan (OL)	3
SOC 1167	Sociology of Aging (OL)	3
TRG 1160	Therapeutic Recreation Program Planning I (OL)	3
TRG 1199	Practicum I (OL)	3
		18

Year 2 Term I		
PSY 2260	Abnormal Psychology (OL)	3
TRG 2253	Therapeutic Recreation Assessment (OL)	3
TRG 2256	Therapeutic Recreation Intervention (OL)	3
TRG 2260	Therapeutic Recreation Program Planning II (OL)	3
TRG 2268	Therapeutic Recreation Programs (OL)	6
		18

Year 2 Term II		
TRG 2259	Therapeutic Recreation Issues and Trends (OL)	3
TRG 2263	Aging Disorders and Disabilities (OL)	3
TRG 2264	Community Resources (OL)	3
TRG 2270	Administrative Practices in Therapeutic Recreation (OL)	3
TRG 2299	Advanced Practicum II (OL)	6
		18

(OL) indicates courses which are also available through Online Learning.

Please refer to the online Academic Timetable for course availability.

IMPORTANT NOTE(S): Students must complete the two Practice Based Experiences (PBE) on a full-time basis. Students will be required to relocate from their home community to complete the practicum placements.

Online learning students have to consult with the program chair or the practicum coordinator prior to registering for their practicums. Online Learning students wanting to enroll in either TRG-1199 or TRG-2299 PBE must register prior to September 1st for a winter term placement and prior to January 1st for a spring term placement.

It is not recommended that Online Learning students register in theory courses and Practice Based Experiences (PBE) concurrently. Contact the TRG program chair to develop a plan.

Online Learning students who reside outside of Alberta must be aware they may not be covered under Workers' Compensation Board (WCB) coverage when participating in Practice Based Experiences outside of Alberta.

Online Learning students are responsible for any fees for service by an off-site test proctor.

All requirements must be met within six years of the first Therapeutic Recreation – Gerontology course used towards the diploma.

GRADUATION
Upon successful completion of all requirements, students are awarded a diploma in Therapeutic Recreation - Gerontology.

TRANSFERS
Athabasca University
Diploma graduates may receive a block transfer of 60 credits (2+2 years) toward the 120-credit Bachelor of Professional Arts in Human Services degree at Athabasca University. Diploma graduates may receive a block transfer of 30 credits towards the three or four-year Bachelor of Human Resources & Labour Relations Post-Diploma, Bachelor of Management Post-Diploma (Management Major), Bachelor of Commerce Post-Diploma (Communication Major) programs.

Dalhousie University
Graduates of the Therapeutic Recreation – Gerontology diploma may apply for admission to the Bachelor of Science (Recreation) degree at Dalhousie University. Students must meet the requirements for admission for transfer students described in the Dalhousie University Undergraduate Calendar. Graduates of the Therapeutic Recreation – Gerontology diploma who are admitted to Dalhousie University may be granted up to a maximum of 60 credit hours of transfer credit towards the Bachelor of Science (Recreation) degree at Dalhousie University. This represents a maximum of 50% of degree requirements.

Griffith University
Therapeutic Recreation - Gerontology diploma graduates may enter into the third semester of the Bachelor of Human Services degree at Griffith University, Logan campus.

Thompson Rivers University
Graduates of Therapeutic Recreation - Gerontology are eligible to receive a maximum of 57 transfer credits into the TRU Bachelor of Health Science or a maximum of 60 transfer credits into the TRU Bachelor of General Studies.

Therapeutic Recreation - Gerontology

University of Calgary
Graduates will be considered for entrance into U of C's 10 full course equivalent Bachelor of Community Rehabilitation program.

Graduates of a two-year diploma program will be awarded up to five (5) full junior course options.

University of Lethbridge
Graduates will be considered for entrance into the U of L's Post-Diploma Bachelor of Therapeutic Recreation program.

University of Regina
Graduates who have achieved a minimum grade of 60% (GPA) will be eligible for 60 credit hours transfer to the Bachelor of Sport and Recreation Studies -Therapeutic Recreation Major. For more information, please visit: www.uregina.ca/kinesiology

School of Health Sciences

Bachelor of Nursing	p. 49
Bachelor of Nursing - After Degree	p. 52
Massage Therapy	p. 100
Practical Nursing	p. 108

lethbridgecollege.ca/programs

Unit Clerk Training

Program Office: 403.320.3310 • unitclerk@lethbridgecollege.ca
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

PROGRAM OVERVIEW
Do you enjoy working with people in a fast-paced and team-based environment? Would you like to develop an exciting career helping others in a medical setting? Our intensive Unit Clerk Training program will give you the foundation you need to build a career in this important field.

Unit Clerks transcribe and process doctors' orders as well as manage patient records. The Unit Clerk plays a crucial role in health care, helping doctors communicate with nurses and ensuring that patients receive the care they need. We'll give you a practical introduction to topics ranging from medical terminology, anatomy and physiology, to hospital administration, transcribing orders and health care billing.

After only 20 weeks including a 3-week practicum, you can take your certificate for Unit Clerk Training and begin your career in health care administration!

CAREER OPPORTUNITIES
Your certificate for Unit Clerk Training will prepare you for entry-level positions in a variety of medical environments, including:
- Doctor's Practices
- Health Care Agencies
- Hospice Facilities
- Hospitals
- Long-Term Care Facilities
- Medical Clinics
- Private Health Care Providers
- Respite Facilities

ADMISSIONS
New students are accepted into the Unit Clerk Training program for the Fall (September) and Winter (January) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ACADEMIC REQUIREMENTS
It is strongly recommended that applicants possess the ability to type at a minimum of 30 words per minute.

PRACTICE BASED EXPERIENCE (PBE) REQUIREMENTS
This program has a required Practice-Based Experience (PBE) component. The College dictates the legal terms and conditions governing the PBE.

Students must meet and maintain certain requirements to participate in the PBE setting as determined by programs, practice agencies and/or legislated by government bodies. These may include health (e.g. immunizations, screening tests, etc.), privacy and security (e.g. police information check, IT access, etc.), and OH&S requirements (e.g. CPR certification, Fire Safety, WHMIS, Mask Fit-testing, etc.).

As a post-secondary health care program in Alberta, provincial immunization standards apply to students in this program. As per the provincial "Standard for Immunization of Post-Secondary Health Care Students and Students in Other High-Risk Occupational Programs", all Post-Secondary Institutions (PSI) have the responsibility of assessing the immunization status of each healthcare student at the time of initial enrollment and to ensure all healthcare students are fully immunized before leaving post-secondary programs. There is an administrative fee for this assessment and vaccinations required to become fully immunized.

Workers' Compensation Board (WCB) coverage – PBE placement agencies and employers usually require WCB coverage on behalf of the student. Students enrolled in post-secondary institutions in Alberta are deemed to be employees of the Province of Alberta and, as such, provided WCB coverage. In certain instances, for students outside of Alberta, WCB coverage may not be provided (e.g. non-Alberta residents taking a course solely through distance learning with a PBE placement outside of Alberta). These students are advised to contact the program prior to application.

PBE sites will include Lethbridge and may include surrounding rural communities. PBE's may include day, evening, and/or weekend schedules.

Students will be expected to travel to assigned sites and will be responsible for arranging travel and any associated costs.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to www.lethbridgecollege.ca/programs and select your program.

CURRICULUM

Year 1 Term I		Learning Credits
COM 1162	Interpersonal Relationships and Communications (OL)	3
CPU 1151	Introduction to Computers (OL)	1.5
CSP 1150	Medical Terminology/ Anatomy and Physiology (OL)	3
ENG 1142	English for Allied Health and Wellness	1.5
HTH 1121	Hospital Administration	1.5
HTH 1125	Patient's Records/ Transcribing Orders	3
HTH 1142	Medical Order Entry	3
		16.5
Year 1 Term II		
HTH 1143	Unit Clerk Practicum	3
		3

(OL) indicates courses which are also available through Online Learning.

Important Notes:
1. HTH 1143 is a 120 hour, full-time, face-to-face practicum offered at the Chinook Regional Hospital and surrounding rural area. Contact the Program Chair, upon acceptance into the program, if you would like alternate practicum placements considered.

GRADUATION
Upon successful completion of all program requirements, students are awarded a certificate in Unit Clerk Training.

School of Allied Health

Health Care Aide	p. 96
Medical Device Reprocessing	p. 102

lethbridgecollege.ca/programs

Virtual and Augmented Reality

Program Office: 403.320.3468 • virtualreality@lethbridgecollege.ca

PROGRAM OVERVIEW
Lethbridge College will get you ready for a career in the latest emerging technology-virtual and augmented reality. After completing this one year certificate, it will open up career opportunities in many industries including education, journalism, healthcare, engineering, and architecture. Enhance your technical expertise and convert ideas from your imagination into exciting and relevant VR-AR content. With a balance of technical and entrepreneurial skill-building, Lethbridge College's Virtual and Augmented Reality Certificate program focuses on 4 areas of study: fundamentals, experiential, spatial and application. You will spend the first term learning Extended Reality fundamentals and be exposed to the latest tools including 3-D modeling, 360-degree video, game engine design and volumetric design. You will build practical projects and be given opportunities to build entrepreneurial skills on your own, and by working with a team of VR and AR specialist. You will spend the final term of the program in an industry-based practicum focused on an area of expertise that appeals to you, helping organizations build VR-AR experiences, as well as design quality content that clients can actually use.

CAREER OPPORTUNITIES
Your certificate in Virtual and Augmented Reality will prepare you for a wide range of positions working independently or as part of an organization. These careers include:

- 360-video developer
- Interactive media developer
- Junior software developer
- Virtual and augmented reality content creator
- Virtual and augmented reality developer
- Virtual and augmented reality specialist

ADMISSIONS
New students are accepted into the Virtual and Augmented Reality certificate program for the Fall (September) term.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

PRACTICUM EXPERIENCE REQUIREMENTS
There is a required practicum component to this program. The College dictates the legal terms and conditions governing the practicum experience.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

OTHER REQUIRED SUPPLIES
Students will be required to purchase a Head Mounted Display (HMD). They should check with instructors for specific HMD requirements.

CURRICULUM

Year 1 Term I		Learning Credits
VXR 1150	Introduction to Immersive Technology	3
VXR 1160	Modelling for Extended Reality	3
VXR 1170	Game Engine Coding I	3
VXR 1180	Basic Image Capture	3
VXR 1190	Immersive Audio Design	3
		15

Year 1 Term II		
BUS 1177	Entrepreneurship	3
VXR 1161	Advanced Modeling for VXR	3
VXR 1165	Advanced Design for VXR	3
VXR 1171	Games Engine Coding II	3
VXR 1181	Advanced Media Capture	3
		15

Year 1 Term III		
VXR 1195	Industry Integration	3

GRADUATION
Upon successful completion of the program, students are awarded a certificate in Virtual and Augmented Reality.

School of Media and Design

Architectural Animation Technology	p. 47
Digital Communications	p. 73
Interior Design Technology	p. 97
Multimedia Production	p. 103

lethbridgecollege.ca/programs

Wind Turbine Technician

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

PROGRAM OVERVIEW
The Wind Turbine Technician (WTT) certificate program provides the foundations for students entering the wind turbine workforce. This includes comprehensive practical skills and knowledge in wind turbine theory and technology. A hands-on approach provides the student with the skills and knowledge needed to gain successful employment in the wind industry. The certificate program also provides multiple future career pathways.

Employment Roles (Entry-level):
- Electrician
- Wind turbine blade repair
- Wind turbine construction
- Wind turbine maintenance
- Wind turbine manufacturing
- Wind Turbine Technician

ADMISSIONS
New students are accepted into the Wind Turbine Technician program in the Fall (September) and Winter (January) terms.

GENERAL ADMISSION REQUIREMENTS
All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

ALTERNATE ADMISSION
Alternate admission applicants must successfully complete the Alberta Apprenticeship first period Electrical pre-entrance exam with a minimum grade of 70%.

NON-ACADEMIC REQUIREMENTS
Students are to supply the following program-approved personal safety equipment: hard hat with chin strap, coveralls or work clothes, steel-toed boots with ankle covered, safety glasses, and tight-fitting work gloves.

Students are required to write the BZEE exam and are responsible for the exam fee.

MEDICAL REQUIREMENTS
This program requires applicants to be in good physical condition. Applicants must be able to perform physical duties such as climbing ladders of 60 to 125 meters in height, lifting items up to 22.5 kg (50 lbs.) in weight, working at heights and in confined spaces.

YOUR INVESTMENT
Program fees will vary. To view fee information for your program, go to lethbridgecollege.ca/programs and select your program.

MOBILE LEARNING PROGRAM
This is a Mobile Learning Program that requires students to supply their own device with required minimum specifications. Go to www.lethbridgecollege.ca/mobilelearning for additional information.

CURRICULUM

Year 1 Term 1		Learning Credits
WHS 1110	Workplace Safety	3
WTT 1100	Introduction Electrical Theory	3
WTT 1103	DC Laboratory Fundamentals	3
WTT 1104	Canadian Electrical Code and Blueprint Reading	3
WTT 1110	Wind Turbine Safety I	3
WTT 1114	Wind Turbine Mechanical	3
WTT 1115	Wind Energy Theory	1.5
		19.5

Year 1 Term 2		
WTT 1113	Wind Turbine Rotor Blades	1.5
WTT 1116	Motor Control & Programmable Controllers	1.5
WTT 1117	Wind Turbine Hydraulics	3
WTT 1118	Wind Park Construction	3
WTT 1120	Wind Turbine Safety II	3
WTT 1123	Wind Turbine Electrical	6
WTT 1124	Wind Turbine Maintenance	3
WTT 1125	Wind Turbine Industry Communication	1.5
		22.5

Important Notes:
1. Applicants must be comfortable working at extreme heights and weather conditions and should not suffer from motion sickness.
2. Applicants must have strong mechanical aptitude and experience working with hand tools.
3. As international travel may be required, industry requires potential employees to be eligible for passports.
4. Applicants must hold a current driver's license as travel is required to training and instructional sites.
5. A good working knowledge of the English language (including speaking, comprehension, reading and writing) is necessary for success in the program and future employment opportunities.
6. When WTT1100, WTT1103, and WTT1104 are combined together they form the requirements for the first period technical training for the Electrician Apprenticeship Period One program. After completion of the Wind Turbine Technician program (or at least the three courses named above), the student could be indentured in the electrician trade and could complete their technical training through to journeyman status by attending the Electrician Apprenticeship Program available at Lethbridge College.

GRADUATION
Upon successful completion of all program requirements, students are awarded a Wind Turbine Technician certificate.

Course Descriptions

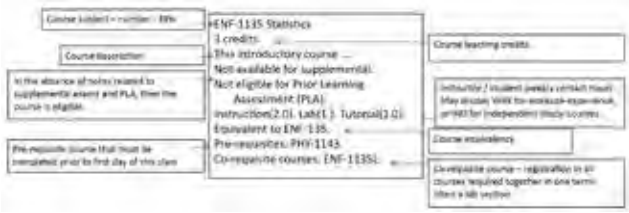
Our continually updated programs and courses ensure you get the knowledge and skills required by today's top employers.

Course Descriptions

This section lists all courses offered at Lethbridge College though individual courses may or may not be scheduled each semester. Check the Academic Timetable online to see if a specific course is offered during a specific term.

ABOUT THE COURSE DESCRIPTIONS
Each course is identified by the course subject (prefix) followed by a course number and the course name. Below the course identifier is the value of course learning credits. A brief description of the course provides information related to course outcomes. The instructor/student contact hours are listed after the course description in the format of: Instructional hours, Laboratory hours, and Tutorial hours per week, assuming the course runs for a full term (Sept – Dec, Jan-Apr, May-Aug). Alternatively, there may be a WRK designation identifying the course as a Fieldwork / Practicum / Clinical Placement course or an IND designation identifying the course as an Independent Study Course. This is followed by a note related to prior learning assessment eligibility, supplemental exam eligibility, and finally a list of pre-requisites and co-requisites.

Example:



RELATED DEFINITIONS
Learning Credits: a measure of learning based on outcomes in a course. Learning credits are used in calculating a student grade point average (GPA).

COURSE OFFERING INFORMATION:
Instruction: in class time used for instruction and the presentation of information, theory or ideas about a specific topic within the discipline.

Laboratory (lab): an organized activity where theories, techniques, or methods are tested, analyzed or demonstrated. Labs are scheduled at separate times from the instruction time and generally focus on students getting hands-on experience of the subject matter, often in a specialized learning space. A course laboratory section is co-requisite to the instruction section at time of registration.

Tutorial: a facilitated meeting of smaller groups of students where there is an opportunity to gain a deeper understanding of the subject matter. Tutorials are scheduled at separate times from the instruction time. A course tutorial section is co-requisite to the instruction section at time of registration.

Practice Based Experience: Authentic Work-site Experience – often referred to as Practicum / Fieldwork / Directed Field Studies / Clinical Placement – is experiential learning within industry, generally off campus. The learning opportunity involves on-the-job experience and supervision by a professional from the college and/or industry.

Independent Study: a self-directed learning experience in which students pursue a topic related to their program or proposed career. Students typically work with a faculty member to determine the project they wish to undertake and the instructor provides support and mentorship to the student.

TERM AND COURSE LENGTH
The Lethbridge College post-secondary term dates are listed in the Academic Schedule which is found online and in the Academic Calendar/Course Catalogue.

Length of courses may vary; therefore, please refer to the Academic Timetable online for the scheduled length of each course.

PRE-REQUISITE AND CO-REQUISITE
Courses listed as pre-requisites must be completed before the first day of classes in the next level course. For example, if PHY-1143 is listed as a pre-requisite for ENF-1135, then PHY-1143 must be successfully completed in order for the PHY-1143 registration to remain in place effective the first day of classes. Registration in a co-requisite courses (often lab parts of a course, though not always) is required in the same term.

SUPPLEMENTAL EXAMINATIONS
To be eligible for supplemental status, a course must have a comprehensive final exam. Courses not open to a supplemental examination are designated in the course description section of the calendar. Applications for the supplemental examination are available from the Registrar's Office. A supplemental exam fee will apply.

If the course in which a supplemental exam is to be written is a prerequisite to a course to be taken in the immediately succeeding term, the student must apply to the Registrar and the examination must be written no later than the opening day of that term.

If the course in which a supplemental exam Is to be written is not a prerequisite to a course to be taken in the immediately succeeding term, the student must apply to the Registrar no more than four weeks after the end of term in which the course was taken. The supplemental examination must be written before the end of the immediately succeeding term.

The supplemental examination will have the same value in course grade determination as the original final examination. The supplemental examination mark will replace the original final examination mark in determining the final grade in the course. A student will be allowed one supplemental examination per course, per term.

For further information, please refer to the Grading Policy.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR)
Prior Learning Assessment Recognition (PLAR) involves the assessment or evaluation of prior learning which is not recognized through transfer credit. Credits may be awarded for learning gained through one or a combination of the following based on an assessment completed by Lethbridge College:

a) Credit courses completed with a passing grade more than ten years ago;
b) A combination of credit courses with no course-to-course relationship to a single Lethbridge College credit course;
c) Informal education and training activities;
d) Self-study;
e) Work experience;
f) Volunteer activities.

Courses are available for prior learning credit unless otherwise stated in the course description section of the calendar.

To receive credit for prior learning, a student must be enrolled in the program and be registered in a minimum of one course during the term in which the prior learning credit is awarded. Credits awarded as the result of PLAR are not included in the 25% residency requirement at Lethbridge College, or in the calculation of Grade Point Average (GPA), or in the current credit load for the purpose of maintaining full-time status.

For additional information on PLAR, visit the Lethbridge College homepage, Support Services, Prior Learning Assessment. For program specific Information, contact the Program Chair/PLAR designate. For policy information, refer to the Grading Policy.

CREDIT COURSE CLASSIFICATION
Lethbridge College uses a course naming convention to systematically number and classify curriculum. Credit course identifiers consist of a prefix made up of three alpha characters designed to identify the discipline content plus four numerical values that identify the course classification. Courses are numbered according to the following classification:

Classification I • 0001 - 0999
Includes courses which are upgrading in nature and may serve to meet entrance requirements to colleges or universities.

Classification II • 1000 - 1999
Includes courses normally offered in the first year of a college program.
- 1000 - 1149 Includes courses that normally transfer to technical institutes, colleges or apprenticeship programs.
- 1150 - 1999 Includes courses that may transfer to universities for elective or subject credit.

Classification III • 2000 - 2999
Includes courses normally offered in the second year of a college program.
- 2000 - 2249 Includes courses that normally transfer to technical institutes or colleges.
- 2250 - 2999 Includes courses that normally carry elective or subject credit at universities.

Classification IV • 3000 - 3999
Includes courses normally offered in the third year of a college program. All courses In this classification are considered to be senior courses in the College curricula.
- 3000 - 3349 Includes courses that normally transfer to technical institutes and colleges.
- 3350 - 3999 Includes courses that normally carry elective or subject credit at universities.

Classification V • 4000 - 4999
Includes courses normally offered in the fourth year of a four year college program. All courses in this classification are considered to be senior courses in the College curricula.
- 4000 - 4449 Includes courses that normally transfer to technical institutes and college.
- 4450 - 4999 Includes courses that normally carry elective or subject credit at universities.

For further information, please refer to the Course Numbering/ Classification Policy.

FULL-TIME STATUS
Lethbridge College complies with Alberta Advanced Education recommendations when determining the institutional full time load for students. A student is considered to be full-time when enrolled in nine (9) credits in each academic term.

Full time status is used to determine eligibility for but is not limited to such things as student awards, student loans, honour roll, foreign student visas, athletic participation, etc.

Once you are registered, you can confirm your full-time status through the Registrar's Office as necessary. For further information, please refer to the Full Time Student Status Policy.

Course Descriptions AAT 2250 - ACC 2271

(AAT) ARCHITECTAL ANIMATION

AAT-2250 Visual Communication (3.00 cr.) A two-dimensional architectural visual communication course combining real world and digital world environments. Storyboarding, image overlaying, digital spatial mapping and creative graphic representation techniques will advance ideation skills and build upon manual drawing and introductory technology outcomes. Not available for supplemental. Instruction (2.0), Lab (1.0). Requisite courses: Take AAT-2250L; (Required, Concurrent).

AAT-2260 Immersive Modelling (3.00 cr.) An advanced modelling course to further develop architectural space, object libraries and concepts from within a variety of virtual world environments. Object and material interactivity is explored within the digital environment platforms. Collaboration will be explored through immersive experiences in order to build upon innovative design thinking frameworks and to develop creative and critical thinking patterns necessary for architectural exploration. Not available for supplemental. Instruction (2.0), Lab (1.0). Requisite courses: Take IDM-1190; (Required, Previous). Take AAT-2260L; (Required, Concurrent).

AAT-2261 Immersive Architecture (3.00 cr.) A combination of production recording and architectural animation software, this course creates digital architectural tours utilizing real-world actors. Architectural spatial walk-through experiences while overlaying human actors recorded in green screen studios will be produced. Not available for supplemental. Instruction (2.0), Lab (1.0). Requisite courses: Take AAT-2260; (Required, Previous). Take AAT-2261L (Required, Concurrent)

AAT-2270 Production (3.00 cr.) Development and production of innovative design and architectural animations utilizing a variety of leading production and post-production software. Text and object overlays, transition quality, music, voice over techniques and raw footage animation editing will embellish architectural video exports to be media-ready. Not available for supplemental. Instruction (2.0), Lab (1.0). Requisite courses: Take AAT-2260; (Required, Previous). Take AAT-2270L (Required, Concurrent)

AAT-2280 Capstone Studio (6.00 cr.) A real-world architectural spatial challenge resulting in a final storyboard, fully produced animation package and a final immersive experience to be presented in front of a panel of judges. Showcase photo-realistic imagery, graphically-engineered animations as well as custom landscape embellishment, building material and lighting selections and virtual reality experiences will have built-in interactivity. Not available for supplemental. Instruction (3.0), Lab (3.0). Requisite courses: Take AAT-2250, AAT-2260, AAT-2270 (Required, Previous). Take AAT-2280L (Required, Concurrent)

AAT-2290 Industry Integration (3.00 cr.) A culminating course utilizing skills acquired from core courses to be completed through a partnership with a national architectural employer. A mentor-based experience spanning 120 hours will reinforce design and illustration skills, architectural animation abilities as well as a variety of soft skills relevant in the work place. This industry collaboration provides real-world experience, support and mentoring. Not available for supplemental. Work Experience (3.0). Requisite courses: Take AAT-2250 AAT-2260 AAT-2270; (Required, Previous).

(ACC) ACCOUNTING

ACC-1125 Service-Based Accounting (1.50 cr.) An overview of basic accounting concepts for service-based businesses and organizations. Includes theoretical concepts and exposure to an integrated accounting software package for all aspects of the accounting cycle. Instruction (3.0). Equivalent to ACC-125.

ACC-1126 Accounting Basics (1.50 cr.) This course is an overview of basic accounting. Topics include an introduction to journals, ledgers, bank reconciliation, payroll, petty cash, GST, and other related accounting transactions. This course is not eligible as an elective in the Business Administration program. Instruction (3.0). Equivalent to ACC-126.

ACC-1146 Bookkeeping (3.00 cr.) An introduction to bookkeeping. Emphasis is on using accepted accounting principles to complete procedures and statements required for the basic accounting cycle for service businesses and organizations. Includes special journals, bank reconciliation, payroll, petty cash, GST and PST. Instruction (5.0). Equivalent to ACC-146.

ACC-1170 Financial Accounting I (3.00 cr.) An introduction to fundamental accounting principles and concepts, the accounting cycle, worksheet preparation, accounting for sales and purchases of merchandise, cash control procedures, and valuation of receivables and inventories. Other topics include financial statement preparation and payroll. Emphasis on integrating basic accounting concepts with practice for sole proprietorships. Instruction (4.0). Equivalent to ACC-170, ACC-171.

ACC-1175 Financial Accounting II (3.00 cr.) Accounting principles and practice related to partnerships and corporations. Includes accounting for capital and intangible assets, natural resources, and current and long-term liabilities. Analysis and interpretation of financial statements and budgeting are also featured. Instruction (4.0). Equivalent to ACC-175, ACC-173. Requisite courses: Take ACC-1170; (Required, Previous).

ACC-2250 Management Accounting I (3.00 cr.) A study of concepts of management accounting, including accounting for planning and control. Includes manufacturing statements; cost-volume-profit relationships; job order and process costing; actual, normal, and standard cost systems; flexible budgets; inventory planning, control, and costing; and accounting for payroll. Instruction (5.0). Equivalent to ACC-250. Requisite courses: Take ACC-1175; (Required, Previous).

ACC-2251 Management Accounting II (3.00 cr.) An in-depth coverage of profit planning, cost allocations, joint and by-product costing, inventory planning, as well as relevant costs and the contribution approach. Includes analysis of accounting systems, internal control, performance measurement, variance and analysis, and absorption versus variable costing statements. Instruction (5.0). Equivalent to ACC-251. Requisite courses: Take ACC-2250; (Required, Previous).

ACC-2271 Intermediate Financial Accounting I (3.00 cr.) An in-depth exploration of accounting principles and the requirements for corporate financial reporting and presentation.

Includes disclosure requirements, revenue recognition, as well as accounting for cash, receivables, inventory, investments, capital and intangible assets. Emphasis on analysis of financial performance. Instruction (5.0). Equivalent to ACC-271. Requisite courses: Take ACC-1175; (Required, Previous).

ACC-2273 Intermediate Financial Accounting II (3.00 cr.) Builds on prior knowledge of the complexities of accounting principles for corporate financial presentation. In-depth emphasis on liabilities and shareholder equity. Includes leases, pensions and accounting errors. Instruction (5.0). Equivalent to ACC-273. Requisite courses: Take ACC-2271; (Required, Previous).

ACC-2278 Computerized Accounting for Management (3.00 cr.) Simulated business scenarios support a hands-on approach to performing accounting functions with pre-packaged computer software. Course includes the set-up and ongoing maintenance of the general ledger, accounts receivable, accounts payable, payroll and inventory modules. Not available for supplemental. Instruction (4.0). Equivalent to ACC-278, ACC-276. Requisite courses: Take ACC-1170 or ACC-1146. (Required, Previous).

(AEM) AGRICUILTURAL ENTERPRISE MANAGEMENT

AEM-1150 Western Canada Livestock (3.00 cr.) An introduction to livestock production and marketing in western Canada. Includes common production concerns, product quality, consumer perception and marketing. Also includes comparison of interactions between food safety, consumer satisfaction, food processing, value added products, animal welfare, human health impacts, technology, as well as economic and environmental sustainability. Instruction (3.0).

AEM-1160 Foundations of Agricultural Enterprise (3.00 cr.) An introduction to principles of agricultural enterprise, including the function, responsibilities, and roles of management. Practical approaches will be applied to achieve foundational skills. Instruction (3.0).

AEM-1170 Western Canada Plants and Soils (3.00 cr.) Includes evaluation of current agricultural issues and challenges relating to crop production in western Canada. Includes interactions between soil types, cropping rotations, production requirements, production quality, consumer perception, alternative and value added production methods, marketing opportunities and the economic and environmental sustainability of such interactions. Instruction (3.0).

AEM-2250 Legal Aspects of Agriculture (3.00 cr.) An exploration of legal issues and frameworks within agricultural enterprises. Includes regulation of land and water use, Indigenous land rights and agricultural practices, ownership and succession planning in conjunction with business modelling and decision making. Comprehensive analysis of legal frameworks will provide a guided approach to navigating legalities within agricultural enterprises. Instruction (3.0).

AEM-2260 Sustainable Agricultural Management (3.00 cr.) A focus on the ecological, social and economic impacts of agriculture. Includes influences of community, national and international approaches to sustainable agricultural management, as well as planning and decision-making regarding methods of food production for livestock and grains. Examination of historical processes and contemporary methods of agriculture will provide opportunities to understand how sustainable agriculture contributes to improved ecological systems, strengthens social connections, and contributes to national and international economies. Instruction (3.0).

AEM-2270 Canadian and World Agriculture (3.00 cr.) An examination of domestic and international agriculture with a focus on the role of Canadian agriculture within a global context. Agriculture policies, concessions and trade barriers, market stabilization and international price determination will be explored to further define the international role of Canadian agriculture. Instruction (3.0).

AEM-2280 Agricultural Policy (3.00 cr.) An analysis of the policies involved in agricultural enterprises. Includes economic principles, national and international trade agreements, land tenure, water management, livestock and grain policies, as well as policies related to agricultural marketing boards. Aspects of risk, trade, innovation, and development of provincial, federal, and international policy-based initiatives will be examined. Instruction (3.0). Requisite courses: Take ECN-1180 (Required, Previous).

(AGB) AGRICULTURE BUSINESS RISK MANAGEMENT

AGB-1140 Statistics for Agribusiness (1.50 cr.) Introductory statistics as it applies to farm management, the basic techniques and tools of statistical analysis. Topics include collection and presentation of data; measures of descriptive statistics; probability and probability distributions. It is highly recommended that students have Grade 12 math before taking any modules in this course. Not available for supplemental. Instruction ().

AGB-1140M1 Data Collection & Presentation (0.75 cr.) Collect and present data in a variety of formats in order to compute and interpret the common descriptive statistic measures and make appropriate use of these in the further analysis of data. Instruction (1.0).

AGB-1140M2 Probability & Probability Distributions (0.75 cr.) Perform statistical inference using a variety of probability concepts. Instruction (1.0).

AGB-1150 Effective Communication (3.00 cr.) The development and application of effective communication skills required to meet expectations of their role and the management of demands within their organization. Topics include communication with industry participants within the value chain (e.g. suppliers, financial institutions, buyers). Personal stress management, functioning effectively within a team, organizational skills and time management. Not available for supplemental. Instruction ().

AGB-1150M1 Personal Communication (0.75 cr.) Identify your personal communication style and adapt it based on the audience. Instruction (1.0).

AGB-1150M2 Communication Strategies (0.75 cr.) Apply effective communication strategies for business negotiation, presentation or conversation. Instruction (1.0).

AGB-1150M3 Conflict and Time Management (0.75 cr.) Develop an increased awareness of self by identifying and effectively managing individual tasks and stressors. Instruction (1.0).

AGB-1150M4 Personal Strengths (0.75 cr.) Identify your personal strengths and skills and align them with your role, the team's role and the organization. Instruction (1.0).

Course Descriptions AGB 1151 - AGB 1171

AGB-1151 Financial Literacy (3.00 cr.) An understanding of agriculture accounting and the ability to interpret financial statements when communicating with management, lenders, or accountants. Topics include cash and accrual accounting, cash flow management, interpreting financial statements, and communication with operational stakeholders. Not available for supplemental. Instruction ().

AGB-1151M1 Bookkeeping and Accounting Principles (0.75 cr.) Define, demonstrate and evaluate basic bookkeeping and accounting practices. Instruction (1.0).

AGB-1151M2 Interpreting Financial Statements (0.75 cr.) Interpreting financial statements to evaluate the company's financial position and sources of revenue and expenses. Instruction (1.0).

AGB-1151M3 Budgets and Projections (0.75 cr.) Communicate your company's ability to manage debt and equity through projections and effective budgets. Instruction (1.0).

AGB-1151M4 Financial Forecasting (0.75 cr.) Articulate your financial position using correct terminology for the purpose of communicating with a lender, shareholders and other stakeholders. Instruction (1.0).

AGB-1160 Currency (3.00 cr.) An exploration into monetary policy, the exchange rate effect and impacts on agriculture markets. Topics include monetary tools, Canadian dollar fluctuations, imports and exports, interest rates and other topics affecting the value of the Canadian dollar. Not available for supplemental. Instruction ().

AGB-1160M1 Value of the USCAD (0.75 cr.) Describe the influences that may impact the value of a currency. Instruction (1.0).

AGB-1160M2 FX Exposures (0.75 cr.) Evaluate foreign exchange exposure. Instruction (1.0).

AGB-1160M3 FX Risk Management (0.75 cr.) Analyze the benefits of a foreign exchange risk management plan. Instruction (1.0).

AGB-1160M4 Hedging and FX Dealers (0.75 cr.) Examine the various ways of hedging FX risk. Explain the relevance of the FX dealer and how to negotiate a fair price. Instruction (1.0).

AGB-1161 Introduction to Market Tools (1.50 cr.) An introduction to market tools for agricultural risk management. Concepts related to the agricultural market include options and futures, margin calls, delivery contracts, pricing insurance programs and pricing formats. Relevant skills applicable to analyzing commodity markets are explored. Not available for supplemental. Instruction ().

AGB-1161M1 Defining Market Tools (0.75 cr.) List and compare the tools available to risk manage your product. Instruction (1.0).

AGB-1161M2 Explaining Market Tools (0.75 cr.) Explain how each tool is used and identify conditions for the use of each tool. Instruction (1.0).

AGB-1162 Market Fundamentals (1.50 cr.) An overview of the economic and production cycles associated with livestock and grain production. Topics include supply and demand factors that affect the livestock and grain. Markets that are focused on include pork, poultry, grain and cattle. Not available for supplemental. Instruction ().

AGB-1162M1 Supply and Demand (0.75 cr.) Analyze and justify sources of supply and demand (domestic and North American) for a particular commodity. Instruction (1.0).

AGB-1162M2 Market Pricing (0.75 cr.) Describe the factors impacting pricing and explain their effect on the market price of a particular commodity. Instruction (1.0).

AGB-1163 Government Policies Marketing (1.50 cr.) A study of domestic and foreign policy and the impacts on agriculture. Topics include government policies, trade tariffs, international trade, import and export nations and supply managed markets versus free market trade. Not available for supplemental. Instruction ().

AGB-1163M1 Policies and Trade Agreements (0.75 cr.) Explain the relevance of government and trade policy to a Canadian producer and utilize these concepts as tools to inform business planning. Instruction (1.0).

AGB-1163M2 Development & Mechanics Trade Agreements (0.75 cr.) Describe the responsibility of government departments, industry organizations and individual producers in implementing and influencing national policy. Interpret the mechanics of trade agreements and analyze the impact on your industry and operation. Instruction (1.0).

AGB-1164 Commodity Market Fundamentals (3.00 cr.) An overview of the economic and production cycles associated with livestock and grain production. Topics include supply and demand factors that affect livestock and grain. Markets that are focused on include pork, poultry, grain and cattle. Not available for supplemental. Instruction ().

AGB-1164M1 Supply and Demand (0.75 cr.) Analyze and justify sources of supply and demand (domestic and North American) for a particular commodity. Instruction (1.0).

AGB-1164M2 Market Pricing (0.75 cr.) Describe the factors impacting pricing and explain their effect on the market price of a particular commodity. Instruction (1.0).

AGB-1164M3 Market Pricing - Pork (0.75 cr.) Describe the factors impacting pricing and explain their effect on the market price of pork. Instruction (1.0).

AGB-1164M4 Market Pricing - Grains and Oilseeds (0.75 cr.) Describe the factors impacting pricing and explain their effect on the market price of grains and oilseeds. Instruction (1.0).

AGB-1171 Market Tools (3.00 cr.) An application of the combination of tools used in risk management strategies. A study of reducing risk and increasing opportunity through careful analysis of market data. Topics include technical analysis and complex risk management strategies. Not available for supplemental. Instruction ().

Course Descriptions AGB 1171M1 - AGR 2250

AGB-1171M1 Apply Market Tools (0.75 cr.) Apply the market tools available to risk manage your product. Instruction (1.0).

AGB-1171M2 Technical Indicators (0.75 cr.) Interpret the technical indicators from the chosen market and describe an execution strategy. Instruction (1.0).

AGB-1171M3 Analyzing Market Data (0.75 cr.) Describe the profile (depth, size, participation) of the market and explain how this may influence direction and strength of the market. Instruction (1.0).

AGB-1171M4 Making Market Decisions (0.75 cr.) Evaluate the financial susceptibilities and opportunities of your enterprise by employing and managing appropriate market tools. Instruction (1.0).

AGB-1172 Risk Tolerance and Risk Policy (3.00 cr.) A personal evaluation of the learner's personal risk tolerance and the risk policy of their organization with a focus on the development of strategies to make decisions based on personal and corporate risk tolerances. Also included is a study of the creation and practice of a risk policy for an operation through identifying risk and opportunity. Topics also include job satisfaction, job improvement and entrepreneurial skills, analysis of the current state of an operation, personal and corporate risk tolerance and interpretation of data. Not available for supplemental. Instruction ().

AGB-1172M1 Risk Tolerance (0.75 cr.) Identify and communicate personal risk tolerance compared to organizational risk tolerance and make decision that resolve these differences. Instruction (1.0).

AGB-1172M2 Risk Exposure (0.75 cr.) Identify significant areas of potential risk exposure and opportunity in a particular agricultural operation. Instruction (1.0).

AGB-1172M3 Quantifying Risk (0.75 cr.) Measure and quantify risk versus opportunity for an individual operation. Instruction (1.0).

AGB-1172M4 Risk Policy (0.75 cr.) Outline and draft the potential items and the daily implementation of these policies to be included in a risk management policy for an operation. Instruction (1.0).

AGB-1190 Market Equity (3.00 cr.) This learning experience is set up as a virtual operation where students are asked to collect and analyze data provided to them through simulated documentation and market data. Not available for supplemental. Instruction (3.0). Requisite courses: Take AGB-1160, AGB-1162, AGB-1171, AGB-1172. (Required, Previous).

AGB-1191 Successful Planning in Agribusiness (3.00 cr.) The study of the process of business planning and the development of a business plan or portions of a business plan for a specified target audience. Resources will be drawn from other courses within the program to develop the plan. Not available for supplemental. Instruction (3.0). Requisite courses: Take AGB-1150, AGB-1151, AGB-1163. (Required, Previous).

(AGR) AGRICULTURE SCIENCES

AGR-1152 Agriculture Research Study (3.00 cr.) Under the mentorship of an agriculture researcher, a student is engaged in a semester-long applied research project in agriculture. Approval of the Chair of the School of Agriculture is required and employment opportunities may be associated with the course. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Requisite courses: Take AGR-1164, AGR-1168, BIO-1175, ENG-1154, IRR-1152, PLT-1152, PLT-1155, RRM-2253. (Required, Previous).

AGR-1160 Introduction to Aquaponics Principles (3.00 cr.) This course covers the basics involved in the integrated food production system known as aquaponics. The aspects of plant physiology, fish production, waste and nutrient management, aquatic biology and ecology, water quality, biocontrol, basics of food safety in integrated production and different growing methods are covered, where plants are grown in nutrient rich water fertilized by intensive fish culture. Set up, operation and maintenance of an aquaponics system is a foundational hands-on course component. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take AGR-1160L (Required, Concurrent).

AGR-1164 Agricultural Entomology (3.00 cr.) This course is an introduction to insects and related arthropods. It includes the structure, life history, ecology, identification, and management of insects. Emphasis will be given to insects of importance to crop and livestock agriculture, including pest monitoring and control using integrated management strategies. Labs will focus on insect anatomy, the identification of major insect orders and families, and insect life cycles. Instruction (1.0), Lab (2.0). Equivalent to AGR-164. Requisite courses: Take AGR-1164L (Required, Concurrent).

AGR-1168 Agriculture Soil Management (3.00 cr.) This course provides an introduction to soil conservation and productivity and methods of controlling both wind and water erosion and conserving soil moisture. Other topics include salinity control, minimum tillage, surface drainage, crop rotations, water holding capacity of soil, and soil productivity classification. Instruction (2.0), Lab (2.0). Equivalent to AGR-1169, AGR-168, AGR-172. Requisite courses: Take AGR-1168L (Required, Concurrent).

AGR-1169 Agriculture Soils (3.00 cr.) A theoretical, laboratory, and field techniques approach to the study and management of agricultural soils with an emphasis on the soils of Western Canada. Theory includes soil formation, physical, chemical and biological soil properties. Laboratory and field techniques introduce students to soil classification, management of salinity, acidity, erosion, tillage and precipitation to optimize crop production. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to AGR-1168, AGR-168, AGR-172.

AGR-1171 Agriculture Issues (3.00 cr.) The changing demands of agriculture and food production, emerging technologies, consumer preferences and food safety, diversification, government policy and social license are evaluated. Not available for supplemental. Instruction (1.5), Lab (1.5). Equivalent to IRR-1152, IRR-152, AGR-193.

AGR-2250 Agriculture Finance (3.00 cr.) An introduction to finance concepts and their application in an agricultural context. Topics include the interpretation of financial information, terminology, investment analysis, sensitivity analysis, and asset valuation. Conceptual learning will be applied with practical computer lab exercises. Instruction (2.0), Lab (2.0). Equivalent to AGR-250, AGR-253, AGR-283. Requisite courses: Take AGR-2250L (Required, Concurrent).

Course Descriptions AGR 2252 - AGR 2289

AGR-2252 Agriculture Research Study (6.00 cr.) Under the mentorship of an agriculture researcher, a student is engaged in a two-semester long applied research project in agriculture. Approval of the Chair of the School of Agriculture is required and employment opportunities may be associated with the course. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (6.0). Requisite courses: Take AGR-1164, AGR-1168, BIO-1175, ENG-1154, IRR-1152, PLT-1152, PLT-1155, RRM-2253. (Required, Previous).

AGR-2256 Precision Agriculture (3.00 cr.) An introduction to the concepts and applications of map reading, remote sensing, Global Navigation Satellite Systems (GNSS) and Geographic Information Systems (GIS) technologies for precision agricultural applications. Topics include raster and vector data structures, geo-referencing, map and digital image interpretation, spatial data acquisition methods, data integration and basic analysis techniques for data-driven agricultural applications. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take AGR-2256L. (Required, Concurrent).

AGR-2261 Sustainable Agriculture (3.00 cr.) A study of theory and practical applications for optimizing long-term returns in agricultural systems while maintaining the long-term viability of natural resources. Topics include possible contaminants in natural, urban and rural environments, preservation of soil, air and water, best practices for resource management and social license. A diversity of farming systems, including conventional, organic, urban agriculture and agroforesty are covered. Emphasis is on the development of an Environmental Farm Plan that combines field assessments with best management practices. Instruction (3.0). Equivalent to AGR-261, AGR-258. Requisite courses: Take AGR-1168, IRR-1152, PLT-1152. (Required, Previous).

AGR-2263 Greenhouse Management (3.00 cr.) Introductory horticulture and greenhouse management with a focus on vegetable, fruit production and novel crops including the incorporation of aquaponics. Not available for supplemental. Instruction (2.0), Lab (2.0). Requisite courses: Take PLT-1152; (Required, Previous).

AGR-2264 Intensive Livestock Production (3.00 cr.) Intensive livestock production field trips, reports and presentations with an emphasis on dairy, swine and poultry industries focusing on production, marketing/processing enterprises and feed processing facilities. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to AGR-2287, AGR-287. Requisite courses: Take BIO-1175; (Required, Previous).

AGR-2266 Soil Fertility (3.00 cr.) Plant nutrient forms, transformations, possible fates and cycles in soils are examined, with an emphasis on Western Canadian agricultural systems. Topics include agronomic practices to enhance soil fertility and nutrient utilization by plants. Techniques for soil sampling, manure application, composting, and commercial fertilizer placement are described. Calculations of commercial fertilizer and manure application rates to meet crop requirements and potential costs per unit of land are covered. Instruction (2.0), Lab (2.0). Equivalent to AGR-266. Requisite courses: Take RRM-2253 (Required, Previous). Take AGR-2266L (Required, Concurrent).

AGR-2267 Cow Calf Management (3.00 cr.) Management, feeding and productivity of the breeding beef herd with an emphasis on feeding management, genetic and environmental interactions, nutrient cycling, marketing and current issues. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to AGR-2289, AGR-289. Requisite courses: Take BIO-1175; (Required, Previous).

AGR-2268 Beef Feedlot Management (3.00 cr.) Management of feedlot cattle including feeding, growth and health, facility design and environmental impact, carcass quality and marketing. Not available for supplemental. Instruction (2.0), Lab (2.0). Requisite courses: Take BIO-1175; (Required, Previous).

AGR-2270 Agricultural Business Law (3.00 cr.) This course covers the legal aspects of the farm business. Topics include the court system, contract law, land law, leases, surface rights, expropriation, real estate transactions, secured and unsecured credit, bankruptcy and insolvency. Instruction (4.0). Equivalent to AGR-270.

AGR-2280 Animal Nutrition (3.00 cr.) A study of the basics of nutrition including composition of feeds and nutritional requirements of animals. Partitioning of nutrients, factors affecting feeding efficiency, and animal production status are combined with feed bunk management and ration balancing. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to AGR-280. Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2280L (Required, Concurrent).

AGR-2286 Agricultural Business Management (3.00 cr.) An introduction to the management of agribusiness, concentrating on the planning, organizing, directing and controlling functions of management. Case studies and practical exercises will be employed to emphasize the relationship that management has with profitability. Not available for supplemental. Instruction (4.0). Equivalent to AGR-286.

AGR-2287 Monogastric Production (3.00 cr.) This course focuses primarily on swine and poultry production in southern Alberta. It covers production, marketing, breeding, nutrition, management, and environmental concerns. Labs will be conducted primarily at producer facilities to ensure study of current management practices and equipment. Not available for supplemental. Not available for Prior Learning Assessment. Instruction (2.0), Lab (2.0). Equivalent to AGR-2264, AGR-287. Requisite courses: Take BIO-1175; (Required, Previous). Take AGR-2287L (Required, Concurrent).

AGR-2289 Beef Cattle Production (3.00 cr.) This course builds on knowledge acquired in previous animal science courses. Topics focus on the beef-cow/calf calendar, including processes and management techniques performed at various stages of production. Feedlot management is also emphasized with concerns for improved production and product quality while meeting animal welfare rights and maintaining a healthy environment. Instruction (2.0), Lab (2.0). Equivalent to AGR-2267, AGR-289. Requisite courses: Take BIO-1175; (Required, Previous). Take AGR-2289L (Required, Concurrent).

Course Descriptions AGR 2291 - AOP 1148

AGR-2291 Ruminant Production (3.00 cr.) This course focuses primarily on sheep and dairy production in Southern Alberta. An overview of the industry, marketing and production requirements are covered in addition to breeding, nutrition, management, and environmental concerns for both species. Labs will be conducted primarily at producer facilities to ensure current management practices and equipment are studied. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to AGR-291. Requisite courses: Take BIO-1175; (Required, Previous). Take AGR-2291L (Required, Concurrent).

AGR-2294 Animal Health (3.00 cr.) Basic causes and characteristics of infectious livestock diseases with an emphasis on identification, treatment and prevention. A herd health program is introduced aimed at reducing stress, minimizing treatment and improving overall production. Instruction (2.0), Lab (2.0). Equivalent to AGR-294. Requisite courses: Take BIO-1175; (Required, Previous). Take AGR-2294L (Required, Concurrent).

(AHM) AGRICULTURAL & HEAVY EQUIPMENT TECHNICIAN

AHM-1124 Suspension and Brakes (6.00 cr.) A study of frame types, suspension types, truck and trailer inspections, hydraulic and air brake operation, and repair procedures. Not available for supplemental. Instruction (5.0), Lab (6.0). Equivalent to AHM-124. Requisite courses: Take AHM-1124L (Required, Concurrent).

AHM-1126 Safety and Hand Skills (3.00 cr.) This course is an introduction to shop practice utilizing safe working habits. It covers shop safety related to hand tools, power tools, fires, welding, WHMIS, wire rope, and other related hazards. Skills such as flaring, soldering, drilling, threading, filing, measuring and related projects are taught, as well as oxy-acetylene heating and cutting, MIG and arc welding. Instruction (3.0), Lab (3.0). Equivalent to AHM-126. Requisite courses: Take AHM-1126L (Required, Concurrent).

AHM-1127 Power Trains (6.00 cr.) This course covers the theory of operation and repair of clutches, transmissions, rear axle assemblies and final drives. Hands-on experience with each component will be provided. Instruction (4.0), Lab (5.0). Equivalent to AHM-127. Requisite courses: Take AHM-1127L (Required, Concurrent).

AHM-1129 Farm and Industrial Equipment (3.00 cr.) This course is a study of the operation and adjustment of farm and industrial equipment. The theories of bearings, seals, belts and chains are an integral part of the course. Also covered will be maintenance in the following areas: engines, power trains, fuel systems, engine oil systems, engine coolant systems, electrical systems and hydraulic systems. Instruction (2.0), Lab (2.0). Equivalent to AHM-129, AHM-128. Requisite courses: Take AHM-1129L (Required, Concurrent).

AHM-1130 Electrical and Electronics (6.00 cr.) This course covers the study of basic electrical and electronic circuits, the operation and repair of starters and alternators and the test equipment used in the repair of mobile equipment. Instruction (4.0), Lab (4.0). Equivalent to AHM-130, AHM-133. Requisite courses: Take AHM-1130L (Required, Concurrent).

AHM-1131 Diesel Engines (6.00 cr.) This course covers the study of two- and four- stroke gas and diesel engine design and related engine components. Engine systems such as induction, lubrication, cooling, exhaust, starting and emissions are included. The lab consists of overhaul procedures on diesel engines. Instruction (4.0), Lab (6.0). Equivalent to AHM-131. Requisite courses: Take AHM-1131L (Required, Concurrent).

AHM-1132 Diesel Fuel Systems (6.00 cr.) This course covers the study of diesel fuel systems and their components. Engine tune-up, engine dynamometer testing, and fuel system diagnostics will be included in the lab component. Instruction (4.0), Lab (3.0). Equivalent to AHM-132. Requisite courses: Take AHM-1132L (Required, Concurrent).

AHM-1135 Mobile Hydraulics (3.00 cr.) This course covers the study of hydraulic fundamentals, open and closed centre systems, pumps, actuators, hoses, couplings, valves, motors, oils and test equipment. Instruction (2.0), Lab (3.0). Equivalent to AHM-135, AHM-134. Requisite courses: Take AHM-1135L (Required, Concurrent).

(ANT) ANTHROPOLOGY

ANT-1195 Cultural Anthropology (3.00 cr.) Explores diversity of human cultures around the globe. Surveys approaches used by anthropologists to study humanity, probes explanations for diverse human cultural practices,and helps understand contemporary global problems. Not available for for supplemental. Instruction (3.0). Equivalent to HUM-1195, HUM-195.

ANT-2295 Anthropology of Gender (3.00 cr.) Examines the roles of women and men in a cross-cultural perspective that highlights variations in gender roles and interpersonal relations around the world. Explores historical changes in gender roles and relations and critically reflects on gender in modern industrial and post-industrial nations. Not available for supplemental. Instruction (3.0). Equivalent to HUM-2295, HUM-295. Requisite courses: Take any one ANT-1195 HUM-1155 HUM-1180 HUM-1190 SOC-1153 or SOC-1160; (Required, Previous).

(AOP) ADMINISTRATIVE OFFICE PROFESSIONAL

AOP-1142 Office Procedures (3.00 cr.) A thorough exposure to decision making, organization of information, scheduling of appointments, proper telephone technique, coordination of business meetings, making travel arrangements, creation and formatting of special documents, and preparation of a career portfolio. Facilitation of incoming and outgoing mail and e-mail, time management and office ergonomics. Includes real life simulation of on-the-job situations. Not available for supplemental. Instruction (5.0). Equivalent to OAA-1142, OAA-142. Requisite courses: Take KEY-1140. (Required, Previous).

AOP-1145 Meeting and Conference Planning (3.00 cr.) A focused opportunity to apply hands-on administrative and organizational skills to planning, organizing, and implementing successful meetings and conferences. Emphasis is on identifying priorities, assigning time lines, developing a master plan and preparing all necessary documents. Not available for supplemental. Instruction (3.0). Equivalent to OAA-2240, OAA-240.

AOP-1148 Records Management (1.50 cr.) A skills-based approach to management of customer or client records. Includes practice with alphabetic, subject, numeric and geographic classification systems as well as electronic file management. Not available for supplemental. Instruction (2.0). Equivalent to OAA-1148, OAA-148, OAA-140.

Course Descriptions ARK 1165 - AST 1133

(ARK) ARCHAEOLOGY

ARK-1165 Introduction Into Archaeology (3.00 cr.) Introduces history, methods, techniques, and practice of archaeology. Focuses on archaeological methods used to locate and excavate sites, analytical techniques to process data and interpret methodologies that incorporate historical and prehistorical cross-cultural archaeology. Not available for supplemental. Instruction (3.0). Equivalent to HUM-1165, HUM-165.

ARK-2261 Archaeology of Prehistoric Europe (3.00 cr.) Focuses on understanding European cultures from the earliest arrival of genus Homo to the rise of Ancient Greece and Rome. Examines Neanderthals to modern humans, historical sites and artifacts, the role of agriculture, and emergence of complex urban-oriented groups and trade. Not available for supplemental. Instruction (3.0). Equivalent to HUM-2261, HUM-261. Requisite courses: Take any one of ANT-1195, ARK-1165, HIS-1170, or HUM-1180; (Required, Previous).

ARK-2265 Archaeology of Ancient Civilizations (3.00 cr.) Traces the development of urbanism and civilization subsequent to the emergence of agriculture and introduces the representative cities, archaeological evidence, technological developments, and cultural characteristics of those civilizations. Focuses on social organizations, physical remains, arts, and history of the ancient states in Mesopotamia, Egypt, the Far East, the middle East, South and Southeast Asia, Greece, Rome, Africa, and the Americas. Not available for supplemental. Instruction (3.0). Equivalent to HUM-2265, HUM-265. Requisite courses: Take any one of ANT-1195, ARK-1165, HIS-1170, or HUM-1180; (Required, Previous).

(ART) ART

ART-1150 Art Explorations (3.00 cr.) An introductory survey of drawing, painting, and mixed media. Exploring the concepts and skills of these media areas through introduction to the materials, equipment, techniques, art elements and principles, and processes. In a studio setting, students analyze examples, and practice in each media area including hands-on warm-ups, exercises, discussions, critiques and projects. A required set of art supplies will be needed for the course. An art supply list will be provided in the first class. Not available for supplemental. Instruction (4.0). Equivalent to ART-150.

ART-1160 Painting I (3.00 cr.) This course introduces the basic principles, techniques and concepts of contemporary painting. Students will have the opportunity to develop drawing and painting theory and skill through a range of media, including forms of watercolour, oil and/or acrylic. Students will be introduced to conceptual and technical development of two-dimensional work through hands-on exercises, examples, discussions, critiques and projects. Supplies are not included in the cost of tuition. A supply list will be provided at the first class. Not available for supplemental. Instruction (3.0). Equivalent to ART-160.

ART-1170 Sculpture I (3.00 cr.) This course is an introductory examination of the theory and practice of sculpture. Concentration is on the basic introductory processes and principles involved with three-dimensional forms. A range of basic sculptural media will be explored, including some of the following: wire, paper, clay, plaster, metals, wood, stone, and found objects. Students will be introduced to conceptual and skills-based development in sculpture through hands-on exercises, examples, discussions, critiques and projects. Supplies are not included in the cost of tuition. A supply list will be provided at the first class. Not available for supplemental. Instruction (3.0). Equivalent to ART-170.

(AST) AUTOMOTIVE SYSTEMS

AST-1116 Introduction to Trade Practices (1.50 cr.) A study of basic materials, shop safety, basic and specialty tools, and material fasteners. Focus is to prepare students to be productive in an entry-level industry position. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (1.0), Lab (1.0). Equivalent to AST-116. Requisite courses: Take AST-1122 and AST-1116L (Required, Concurrent).

AST-1119 Basic Automotive Electrical I (3.00 cr.) Students will study electrical theory including electron theory, voltage, current, resistance, circuits, circuit faults and magnetism. Solid-state components such as diodes and transistors will be explored. Some simple automotive circuits, as well as automotive batteries, will be discussed and tested. Diagnostic skills will be stressed. Practical work will be performed in the shop where possible using various testing tools including volt meters and scan tools. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (3.0). Equivalent to AST-119. Requisite courses: Take AST-1119L, AST-1116 and AST-1122 (Required, Concurrent).

AST-1122 Automotive Industry (1.50 cr.) This course provides an overview of the government agencies and regulations that impact the automotive industry. This will cover shop safety expectations, including the safe use of oxyacetylene. Students will work with computer applications used in the trade for managing business operations. In addition, effective communication for customer service will be examined. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0). Equivalent to AST-122. Requisite courses: Take AST-1116 (Required, Concurrent).

AST-1131 Automotive Braking Systems (3.00 cr.) Students will study brake system fundamentals, components and service. Students will work on shop units and progress to customer vehicles when practical. Emphasis will be on safety and quality of work. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (2.0). Equivalent to AST-131. Requisite courses: Take AST-1122, AST-1116, AST-1131L and AST-1133 (Required, Concurrent).

AST-1133 Automotive Drivelines (3.00 cr.) Students will study drive-shafts, axles and differentials. Diagnosis and industry repair techniques will be covered in theory and on shop units. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (3.0). Equivalent to AST-133. Requisite courses: Take AST-1116, AST-1122 and AST-1133L (Required, Concurrent).

Course Descriptions AST 1134 - BIO 0085

AST-1134 Auto Directional Control Systems (3.00 cr.) Students will study current suspension, steering and alignment systems. Emphasis will be on safety, diagnosis and repair. Students will begin with shop units and progress to customer units where practical. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (3.0). Equivalent to AST-134. Requisite courses: Take AST-1122, AST-1116 and AST-1134L (Required, Concurrent).

AST-1135 Basic Maintenance (3.00 cr.) Students will study and practice entry-level jobs such as oil changes, service jobs and tire service. Students will also learn light trailer service. The focus of the class will be to prepare students for an entry-level position in the industry. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (2.0). Equivalent to AST-135. Requisite courses: Take AST-1135L (Required, Concurrent).

AST-1138 Automotive Electrical Systems II (3.00 cr.) Students will study automotive electrical systems and circuits including circuit diagrams, circuit protection devices, circuit operation and fault diagnosis. Students will be introduced to basic automotive circuits and accessories, as well as starting and charging systems. Test equipment will be studied and used in a practical setting. Students will analyze circuits on live units where possible and perform repairs as required. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (3.0). Equivalent to AST-138. Requisite courses: Take AST-1116, AST-1119 and AST-1122. (Required, Previous). Take AST-1138L (Required, Concurrent).

AST-1139 Advanced Automotive Electrical Systems (3.00 cr.) Students will study automotive electrical systems and advanced circuits including on-car electrical and electrical accessories. They will also explore sensors critical to electronic engine control systems with lab scopes and multimeters. Scan tool hookup and data interpretation will also be covered. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.5), Lab (2.5). Equivalent to AST-139. Requisite courses: Take AST-1116, AST-1119 and AST-1122. (Required, Previous). Take AST-1138 and AST-1139L (Required, Concurrent).

AST-1141 Automotive Drivetrains (3.00 cr.) A study of clutches, transmissions, and transaxles. Diagnosis and industry repair techniques are covered in theory and on shop units. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (2.0). Equivalent to AST-141. Requisite courses: Take AST-1116 and AST-1122. (Required, Previous). Take AST-1141L (Required, Concurrent).

AST-1142 Automotive Engine Systems (3.00 cr.) Students will study engine systems such as air induction, exhaust, lubricating and cooling. Disassembly and assembly procedures as well as engine diagnosis will be performed on shop units. Students will progress to customer vehicles when practical. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.5), Lab (2.5). Equivalent to AST-142. Requisite courses: Take AST-1116 and AST-1122. (Required, Previous). Take AST-1142L and AST-1143 (Required, Concurrent).

AST-1143 Engine Fundamentals (3.00 cr.) This course examines current industry practices for inspection and repair of automotive engines. Students will inspect, measure and evaluate engine components. This will include disassembling and reassembling engines to operational standards. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.5), Lab (2.5). Equivalent to AST-143. Requisite courses: Take AST-1116 and AST-1122. (Required, Previous). Take AST-1142 and AST-1143L (Required, Concurrent).

AST-1145 Performance Projects (3.00 cr.) Students will perform applied research into the extreme applications in the automotive industry. Students will pick a project of personal interest and research the project using all available information. Where possible, the product or procedure will be performed in the shop and the results compared to the research. The student will analyse the value of the product or procedure based on the results of the research and/or the practical testing. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (2.0). Equivalent to AST-145. Requisite courses: Take AST-1116 and AST-1122. (Required, Previous). Take AST-1145L (Required, Concurrent).

(BIO) BIOLOGY

BIO-0020 Biology 0020 (6.00 cr.) A study of ecology, mitosis, the structure and functioning of DNA, the process of protein synthesis, and genetics. Topics covered are the emphasis in ecology that will help provide an understanding of the biological world, processes involving energy transfers, biogeochemical cycles, and the impact of humans on their environment. The role of DNA and protein synthesis in genetics will be examined. Students registering in this course should have successfully completed SCI-0010 or Science 10 or equivalent. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take BIO-0020L (Required, Concurrent).

BIO-0030 Biology 0030 (6.00 cr.) A study of biochemistry and human anatomy and physiology. Biochemistry provides an understanding of the chemical processes within the human body. Topics covered are the study of the major organ systems within the human body. Laboratory work will include microscopy, dissection and analysis of test results. Students registering in this course should have successfully completed BIO-0020 or Biology 20 or equivalent. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take BIO-0030L (Required, Concurrent).

BIO-0085 Biology 0085 (5.00 cr.) A study of ecology, mitosis, the structure and functioning of DNA, the process of protein synthesis, and genetics. Topics covered are the emphasis in ecology that will help provide an understanding of the biological world, processes involving energy transfers, biogeochemical cycles, and the impact of humans on their environment. The role of DNA and protein synthesis in genetics will be examined. Students registering in this course should have successfully completed SCI-0075 or equivalent. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to BIO-085. Requisite courses: Take BIO-0085L (Required, Concurrent).

Course Descriptions BIO 0095 - BIO 1162

BIO-0095 Biology 0095 (5.00 cr.)
A study of biochemistry and human anatomy and physiology. Biochemistry provides an understanding of the chemical processes within the human body. Topics covered are the study of the major organ systems within the human body. Laboratory work will include microscopy, dissection and analysis of test results. Students registering in this course should have successfully completed BIO-0085 or equivalent. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to BIO-095. Requisite courses: Take BIO-0095L (Required, Concurrent).

BIO-1146 Joints and Soft Tissues (3.00 cr.) The articulating surfaces of the skeleton, and their range of motion will be discussed. The normal range of motion will be critically compared to disorders and disease involving joints. Pathologies related to joint function will be examined. Emphasis will be placed on muscle origins, insertions and actions, their innervations and joints they act upon. Discussion of connective tissue structure and ligaments will be included. Instruction (1.5), Lab (1.5). Equivalent to BIO-146. Requisite courses: Take BIO-1160. (Required, Previous). Take BIO-1146L (Required, Concurrent).

BIO-1149 Introduction to Physiology (3.00 cr.) This course studies the basic anatomy and physiology of the major organ systems of the human body. Not available for supplemental. Instruction (2.0). Equivalent to BIO-149.

BIO-1150 Cellular Basis of Life (3.00 cr.)
An introduction to the application of cellular and molecular biology in agriculture, biotechnology and medicine. Emphasis is placed on the comparison of prokaryotic and eukaryotic cell structure and function, biological chemistry, metabolism, homeostasis, and the structure and function of DNA and RNA in gene expression. It is recommended that students have successfully completed BIO-30 or equivalent before registering in BIO-1150. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to BIO-150. Requisite courses: Take BIO-1150L (Required, Concurrent).

BIO-1151 Environmental Issues (3.00 cr.)
This course is an introduction to the key concepts and principles that govern how nature works, and how they might be applied to environmental and resource problems. Concepts are presented in the context of current environmental issues facing the Earth and its inhabitants. A component of the course includes lifestyle options that may help students become more environmentally responsible and informed citizens of the planet. Service Learning opportunities may be available. Not available for supplemental. Instruction (3.0). Equivalent to BIO-151.

BIO-1152 Physiology of Aging (3.00 cr.)
A study of the structure and function of the body relative to basic chemistry, histology, and body systems including skeletal, muscular, respiratory, circulatory, nervous, urinary, gastrointestinal, integumentary, endocrine, and reproductive. Emphasis is on diseases and disorders associated with aging and cancer. It is recommended that students have successfully completed BIO-30 or equivalent before registering in BIO-1152. Not available for supplemental. Instruction (2.0), Lab (1.0). Equivalent to BIO-152. Requisite courses: Take BIO-1152L (Required, Concurrent).

BIO-1155 Human Nutrition (3.00 cr.)
A study of the sources, composition and functions of the macromolecules, water, vitamins, and minerals that are necessary components of the human body. Additionally, the social context and habits of eating and food, nutrition for a healthy lifestyle, sport, and disease will be discussed, as well as the chemical composition of food. Service Learning opportunities may be available. It is recommended that students have successfully completed BIO-30 or equivalent before registering in BIO-1155. Not available for supplemental. Instruction (3.0). Equivalent to BIO-155.

BIO-1156 Wellness and Health Issues (3.00 cr.) An overview of the dimensions of wellness, including physical, emotional, social, intellectual, spiritual, occupational, and environmental wellness, with a focus on concepts of health and wellness, within the context of community, including cost to the Health Care System. An analysis, explanation and indentification of individualized strategies of personal health isuues, and dimensions of fitness to build resiliency and take responsibility for one's own health, will be explored. Not available for supplemental. Instruction (3.0). Equivalent to BIO-156.

BIO-1157 Diversity of Life (3.00 cr.)
A comparison of the biological diversity of protists, fungi, plants and animals. Topics covered include natural selection, speciation, and the evolutionary history of eukaryotes. It is recommended that students have successfully completed BIO-30 or equivalent before registering in BIO-1157. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to BIO-157. Requisite courses: Take BIO-1157L (Required, Concurrent).

BIO-1160 Anatomy and Physiology I (3.00 cr.) A comprehensive study of anatomical terms, body organization, basic chemistry, histology, skeletal system, muscular system, digestive system, and the reproductive system. Labs include the study of the skeleton, muscles and histology. It is recommended that students have successfully completed BIO-30 or equivalent before registering. Not available for supplemental. Instruction (3.0), Lab (1.0). Equivalent to BIO-160. Requisite courses: Take BIO-1160L (Required, Concurrent).

BIO-1161 Anatomy and Physiology II (3.00 cr.) A continuation of BIO-1160, studying respiratory, cardiovascular, lymphatic, urinary, nervous and endocrine systems, special senses and electrolytes. Labs focus on urinalysis, hematology, internal anatomy, blood vessels, nervous system, and the eye and ear. Not available for supplemental. Instruction (3.0), Lab (1.0). Equivalent to BIO-161. Requisite courses: Take BIO-1160; (Required, Previous). Take BIO-1161L (Required, Concurrent).

BIO-1162 Microbiology (3.00 cr.)
An introduction to the pathogenic micro-organisms of humans with a major emphasis on bacteriology and aseptic techniques. Discussed are defence mechanisms, chemical and cellular immunity and anatomical barriers to infection in addition to the details of particular viral, bacterial, fungal, parasitic, and prion diseases/infections. It is recommended that students have successfully completed BIO-30 or equivalent before registering in BIO-1162. Not available for supplemental.

Course Descriptions BIO 1165 - BIO 3350

Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (1.0). Equivalent to BIO-162. Requisite courses: Take BIO-1162L (Required, Concurrent).

BIO-1165 Introduction to Biotechnology (3.00 cr.) This introductory course stresses techniques, documentation and instrumentation in medicine, agriculture, forestry, fisheries, mining, oceanography, the environment, radiation, and nutrition biotechnology. It introduces legal aspects, commercialization, and impact of biotechnology on humanity. This course looks at recombinant DNA technology, gel electrophoresis, forensics and DNA, vaccines, drug development, plant breeding, cell cloning, water and solid waste treatment, and scanning: MRI, CT, ultrasound. In order to be successful in this course, students should have completed Biology 30 or equivalent. Instruction (3.0), Lab (2.0). Equivalent to BIO-165. Requisite courses: Take BIO-1165L (Required, Concurrent).

BIO-1167 Botany (3.00 cr.)
An introduction to plant evolution and diversity with a focus on angiosperms (flowering plants). Emphasis is on plant anatomy, physiology and the effects of abiotic and biotic factors on plant growth and development. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1167L. (Required, Concurrent).

BIO-1168 Zoology (3.00 cr.)
A study of the orders and major families of mammals and birds with an emphasis on evolutionary biology, ecology, distribution, and behavior. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to BIO-168, BIO-158. Requisite courses: Take BIO-1168L (Required, Concurrent).

BIO-1169 Structural Human Anatomy (3.00 cr.) A comprehensive study of microscopic and gross anatomy. Emphasis is on anatomical terminology and body organization relevant to human health. The link between anatomical structures and their function is analyzed in the lab. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1169L (Required, Concurrent).

BIO-1170 Plant Systematics (3.00 cr.)
A study of the identification and classification of gymnosperms and angiosperms including trees, shrubs, grasses, grass-likes, aquatics, and forbs. Emphasis is on phenotypic taxonomic characteristics while following a phylogenetic classification system and related nomenclature. Habitat and plant ecological relationships are also examined. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1167 (Required, Previous). Take BIO-1170L. (Required, Concurrent).

BIO-1172 Ecology (3.00 cr.)
A study of the interrelationships between living organisms and their environment with an emphasis on elements of the physical world which shape and define ecosystems. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1172L, ENG-1155 (Required, Concurrent).

BIO-1175 Animal Science (3.00 cr.)
A study of a wide perspective of animal husbandry practices of the various species currently under production in southern Alberta. Includes physiology, nutrition, reproduction, and current environmental, marketing and welfare issues. Instruction (2.0), Lab (2.0). Equivalent to BIO-175, AGR-182. Requisite courses: Take BIO-1175L (Required, Concurrent).

BIO-1178 Essentials of Human Anatomy & Physiology (6.00 cr.) A body systems approach to the essentials of human anatomy and physiology. Emphasis is placed on the interrelationships between form and function at the gross and microscopic levels of organization, and on unifying themes, such as homeostasis. Topics include basic anatomical and directional terminology; fundamental concepts and principles of cell biology; histology; body systems; fluid/electrolyte and acid/base balance; and an introduction to the principles and processes of microbiology. Not available for supplemental. Instruction (6.0).

BIO-1179 Introduction to Pathophysiology (3.00 cr.)
An introduction to physical pathology that can threaten the health status of individuals. An exploration from the cellular to systems level of disease processes and adaptive human responses. It is recommended that students have successfully completed BIO-1178 before registering in BIO-1179. Not available for supplemental. Instruction (3.0).

BIO-1180 Human Physiology (3.00 cr.)
A comprehensive study of the basic structures and functions of the bodily systems and their constituents. Emphasis on homeostasis and emergent properties of bodily systems in the context of human health. Dissection and microscopy skills will be applied in the lab. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1169 (Required, Previous). Take BIO-1180L (Required, Concurrent).

BIO-2262 Animal Physiology (3.00 cr.)
This course is an introduction to the physiology of livestock common to southern Alberta with all of the major organ systems being studied. A primary focus will be placed on understanding physiology to improve production. Labs will range from dissection of digestive tracts, semen evaluation and artificial insemination, to carcass evaluation. Instruction (3.0), Lab (2.0). Equivalent to BIO-2263, BIO-262, BIO-259. Requisite courses: Take BIO-1175; (Required, Previous). Take BIO-2262L (Required, Concurrent).

BIO-2263 Animal Physiology I (3.00 cr.)
Domestic farm mammalian and avian physiology including hematology, respiration, the cardiovascular system, renal physiology and monogastaric digestion. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to BIO-2262, BIO-262, BIO-259. Requisite courses: Take BIO-1175; (Required, Previous).

BIO-2264 Animal Physiology II (3.00 cr.)
Domestic farm mammalian and avian physiology including ruminant digestion, endocrinology, pre-natal growth, reproduction and lactation. Not available for supplemental. Instruction (2.0), Lab (2.0). Requisite courses: Take BIO-1175; (Required, Previous).

BIO-3350 Comparative Animal Biology (3.00 cr.) The functional and evolutionary themes that have given rise to the chordates will be examined. Topics include ontogeny and phylogeny, the origin of the chordates, and the structural and functional differences/similarities between extinct and extant chordates. Laboratory studies include comparative dissections, examination of structural and functional adaptations of chordates, and various laboratory techniques for animal biology. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to BIO-350. Requisite courses: Take BIO-3350L (Required, Concurrent).

Course Descriptions BIO 3352 - BUS 2267

BIO-3352 Applied Biotechnology (3.00 cr.) This course deals with structural and functional diversity and their adaptive strategies in total environment. The emphasis will be on their roles in biogeochemical cycling and use of genetically engineered microbes in bioremediation design, aquatic microbes in sewage treatment, and industrial microbes in generating alternative energy sources. Pathogenic microorganisms and their inactivation, disinfection, and destruction are also discussed. In weekly laboratory sessions, students will gain experience in microbiological techniques such as isolation, cultivation, cultural characterization, and identification of microorganisms. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-3352L (Required, Concurrent).

BIO-4461 Field Ornithology (3.00 cr.) This course will encompass the biology, taxonomy, and ecology of North American avian species. An evolutionary perspective will emphasize niche adaptation and morphological differences amongst various avian orders. A strong field orientation will include identification, reproductive ecology studies and capture and banding techniques. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-4461L (Required, Concurrent).

BIO-4462 Mammalogy (3.00 cr.) This course will introduce students to the science of animal biology. General principles of evolution, ecology, classification, systematics and animal body plans will be covered. Although a wide variety of phyla will be covered, there will be additional focus on the chordates. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-4462L (Required, Concurrent).

(BLK) BLACKFOOT LANGUAGE

BLK-1151 Blackfoot Language I (3.00 cr.) This is an elementary Blackfoot language course in vocabulary and grammar with instruction in skills of listening, speaking, reading and a small amount of writing. The course also takes some Blackfoot culture into consideration. Not available for supplemental. Instruction (3.0). Equivalent to BLK-151, NAT-151.

BLK-2251 Blackfoot Language II (3.00 cr.) This course will continue with the development of Blackfoot vocabulary and grammar and build on the foundation provided in Level I. The course will focus on the relationship of culture to language. Not available for supplemental. Instruction (3.0). Equivalent to BLK-251, NAT-251. Requisite courses: Take BLK-1151; (Required, Previous).

(BUS) BUSINESS ADMINISTRATION

BUS-1124 Service-Based Small Business Management (3.00 cr.) An introduction to the organization and operation of a small business. Focus is on development of a local business plan which includes feasibility, marketing, finance, and operations components. Students will be guided through lectures, video cases, and presentations from local business leaders. Not available for supplemental. Instruction (3.0). Equivalent to BUS-124.

BUS-1166 Business Law (3.00 cr.) Extensive coverage of how law governs and facilitates business enterprise. Provides an overview of key areas fundamental to business operation, including contracts, torts, bailment, insurance, agency, employment, land transfers, tenancy, mortgage, partnership and corporate law. Instruction (3.0). Equivalent to BUS-166.

BUS-1168 Management Communication (3.00 cr.) A reflective and skills-based approach to effective personal and business communication. Emphasis is on developing enhanced self-awareness, and understanding the impact of one's personal communication effectiveness through self-evaluation, feedback, and role plays. Topics include bias, stereotypes, conflict, effective listening, positive and negative group behavior, and leadership. Includes electronic, written, and verbal communication. Not available for supplemental. Instruction (4.0).

BUS-1170 Introduction to Management (3.00 cr.) The exploration of the four basic components of management: planning, organizing, leading and controlling. Includes theoretical background as well as practical application through case study analysis. Instruction (4.0). Equivalent to BUS-170.

BUS-1176 Financial Planning (3.00 cr.) A focused opportunity to critically analyze one's personal financial position, gather knowledge for competent decision-making regarding the accumulation and growth of personal wealth, and increase awareness relating to the optimum distribution of financial resources. Not available for supplemental. Instruction (4.0). Equivalent to BUS-176.

BUS-1177 Entrepreneurship (3.00 cr.) An interactive exploration of the concept of entrepreneurship and assessing one's suitability and capacity for it. Involves learning to differentiate between mere ideas and true entrepreneurial opportunities. Includes assessing the implementation of entrepreneurial endeavor and an exploration of the issues relating to new business start-up. Not available for supplemental. Instruction (3.0). Equivalent to BUS-177.

BUS-1180 Project Management (3.00 cr.) A skills-based introduction to project management. Includes use of project management software to organize, track and control common business projects and events. Not available for supplemental. Instruction (3.0). Equivalent to BUS-180.

BUS-1181 Sales Systems (3.00 cr.) This course will introduce learners to software as a tool for incorporating business concepts in retail, primarily in terms of managing and controlling point of sale and related services and inventory functions. Not available for supplemental. Instruction (3.0). Equivalent to BUS-181. Requisite courses: TAKE BUS-1178; (Required, Previous).

BUS-1185 Business Computer Applications (1.50 cr.) A skills-based approach to computers and common business-oriented software packages, including but not limited to, windows, e-mail, word processing, presentations, and databases. Not available for supplemental. Instruction (3.0). Equivalent to BUS-185.

BUS-2267 Database Design (3.00 cr.) A skills-based approach to planning, creating, utilizing and modifying databases in order to manage data and solve real-world business problems. Not available for supplemental. Instruction (3.0). Equivalent to BUS-267. Requisite courses: Take BUS-1178, BUS-1185, or CPU-1165. (Required, Previous).

Course Descriptions BUS 2268 - CEN 3354

BUS-2268 Organizational Behavior (3.00 cr.) A comprehensive analysis of human behaviour in organizations. Topics include motivation and individual behaviour; stress and its management; perception and personality; and emotions and values. Includes communication; leadership; power; decision-making; inter- and intra-group dynamics; conflict; and change. In addition to theoretical coverage, students will have opportunities to develop analytical and decision-making skills through case study analysis, simulation exercises, and research projects. Instruction (5.0). Equivalent to BUS-268. Requisite courses: Take BUS-1170. (Required, Previous).

BUS-2275 International Business (3.00 cr.) An intensive orientation to international business and economic and financial tools, enabling students to analyze and understand international business events. Includes opportunities to apply analytical tools in cases and projects. Not available for supplemental. Instruction (3.0). Equivalent to BUS-275. Requisite courses: Take ECN-1180, BUS-1170; (Required, Previous).

BUS-2278 Industrial & Labour Relations (3.00 cr.) A skills-based approach to managing unionized workplaces and those faced with certification applications. Includes the structure and functioning of the Canadian industrial relations system, basic employment law concepts, the union certification process, negotiation and administration of collective agreements, and resolution of strikes and disputes. Not available for supplemental. Instruction (3.0). Equivalent to BUS-278.

BUS-2284 Advanced Internet Skills (1.50 cr.) A skills-based approach to Internet software, including communication tools, conferencing and website development. Advanced skills using the Internet will be developed. Not available for supplemental. Instruction (3.0). Equivalent to BUS-284, BUS-182. Requisite courses: Take BUS-1178 or BUS-1185; (Required, Previous).

BUS-2285 Advanced Small Business Management (3.00 cr.) Exploration of the tools of a small business manager including evaluation and organization of business expansion by buying an existing business or franchising. Covers decision-making re finances, marketing, taxes, operations, human resources, growth, and business transfer. Instruction (3.0). Equivalent to BUS-285. Requisite courses: Take BUS-1177, MKT-1188, ACC-1170. (Required, Previous).

BUS-2291 Writing a Business Plan (3.00 cr.) A comprehensive study of the steps required in development of a workable business plan. A feasibility study as well as a business plan will be developed. Not available for supplemental. Instruction (3.0). Equivalent to BUS-291. Requisite courses: TAKE BUS-2285; (Required, Previous).

BUS-2292 Business Finance (3.00 cr.) Exposure to essential business finance topics including time value of money; bond and dividend valuation; and analysis of cash flows influencing capital budgeting and leasing decisions. Topics are examined with regard to risk and include an international perspective. Instruction (5.0). Equivalent to BUS-292. Requisite courses: TAKE ACC-1175; (Required, Previous).

BUS-2298 Human Resource Management (3.00 cr.) A comprehensive study of techniques and activities utilized in acquiring, developing and maintaining a highly effective workforce. Topics include designing and analyzing jobs; human resource planning; recruitment and selection; orientation and training; career development; performance appraisal; financial compensation; employee benefits and services; and occupational health and safety. Topics are discussed in light of various environmental challenges such as government policies, demographic trends, and organizational trends. Includes theoretical and applied exposure. Instruction (5.0). Equivalent to BUS-298.

(CAD) COMPUTER ASSISTED DRAFTING

CAD-1160 Graphic Communications (3.00 cr.) The application of AutoCAD in the production of engineering drawings to acceptable industry standards. Incorporating the use of productivity tools and techniques for efficient CAD drawing. An introduction to 3D modeling and advanced applications and customization techniques applicable to AutoCAD. Not available for supplemental. Instruction (6.0).

(CAP) COMMUNICATION ARTS

CAP-1158 Communication Process (3.00 cr.) An introduction to the dynamics of communication. Emphasis is on developing strategies to resolve conflict, persuade listeners, improve critical thinking, develop client relations and address communication barriers. Instruction (3.0). Equivalent to CAP-158.

(CEN) CONSERVATION ENFORCEMENT

CEN-2269 Field Investigation Techniques (3.00 cr.) An introduction to the field component of a natural resources investigation, from the time a call is received to the time the field portion of the investigation is completed. Topics include recording and responding to a complaint, and processing a crime scene including crime scene management, photography, evidence collection, complainant statement taking and field forensics. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to DCE-2259, DCE-259. Requisite courses: Take LAW-1161 (Required, Previous). Take CEN-2269L (Required, Concurrent).

CEN-3352 Parks and Protected Areas (3.00 cr.) An overview of management of parks and protected areas including operational work plans, budgets, and user services. The focus is on managing the balance between conserving and protecting natural resources with park user demands. The roles and functions of park personnel will be examined. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to DCE-3352, DCE-352. Requisite courses: Take CEN-3352L (Required, Concurrent).

CEN-3354 Administrative Procedures (3.00 cr.) Organizational structure and administrative procedures common to governmental agencies and private organizations involved in the management of natural resources are investigated. Additional topics include supervision, management principles, work planning, risk management, employee programs and the relationships between management and organized labor. Not available for supplemental. Instruction (3.0). Equivalent to DCE-3354, DCE-354, DCE-350.

Course Descriptions CEN 3357 - CEN 4485

CEN-3357 Environmental Compliance Techniques (3.00 cr.) This course examines the role of environmental inspectors and investigators in ensuring public and private industrial operations comply with environmental legislation established to protect the environment against degradation or damage. Compliance options and alternatives are presented in dealing with violations. The principles of administrative law form a major part of this course. Not available for supplemental. Instruction (3.0). Equivalent to CJP-3357, CJP-357.

CEN-3369 Environmental Investigations (3.00 cr.) The exploration of successful practices that form part of the investigation completion framework in conservation enforcement. Topics include paperwork completion, the investigative process, the use of legal forms required in environmental investigations including suspect statements, summonses, subpoenas, long form informations, search warrants and a court brief for a Crown Prosecutor. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take CEN-3369L (Required, Concurrent).

CEN-3374 Environmental Law (3.00 cr.) An examination of Canadian legal institutions that shape environmental law by examining specific court and administrative law decisions. Topics will include legislative and common law processes and remedies available to respond to violations, claims and investigations. Linkages between environmental issues of the day, and policy and legislation will be examined. Not available for supplemental. Instruction (3.0). Equivalent to DCE-3377, DCE-377.

CEN-3379 Case Management (3.00 cr.) A focus on the integration of a wide variety of concepts, skills and procedures in the context of a complex investigation or case. Learners, working in teams, will be actively involved in investigating a broad range of incidents and will take the cases from occurrence or complaint through to disclosure to Crown Counsel. Not available for supplemental. Instruction (3.0). Equivalent to CJP-3379, CJP-379. Requisite courses: Take CJP-2267, CEN-3369, LAW-2264. (Required, Previous).

CEN-3389 Problem Wildlife Management Techniques (3.00 cr.) The investigation and control of wildlife damage to crops and the predation of livestock will be examined. Controlling nuisance wildlife and problems are an ongoing duty for enforcement officers and agricultural field personnel. Methods of prevention and control used in the field by resource management agencies are covered. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to DCE-3389, DCE-389. Requisite courses: TAKE RRM-2258; (Required, Previous). Take CEN-3389L (Required, Concurrent).

CEN-3390 Issues in Resource Enforcement (3.00 cr.) A series of short, topical presentations that deal with contemporary problems or issues unique to the discipline of conservation enforcement are explored. A critical review is conducted on media articles and research reviews in the resource field. Not available for supplemental. Instruction (3.0). Equivalent to DCE-3390, DCE-390.

CEN-4455 Field Enforcement (6.00 cr.) An exploration of the practical field enforcement functions common to conservation enforcement agencies. Topics include agency and academic standards for interpreting and applying legislation, conducting regulatory patrols, performing competently within agency policies, procedures, directives and guidelines, and completing and issuing various enforcement documents. Not available for supplemental. Work Experience (6.0). Equivalent to DCE-4455, DCE-455.

CEN-4460 Community Involvement (3.00 cr.) Community support is essential to the success of conservation enforcement field personnel. Community support and relations will be developed and fostered through a variety of initiatives including educational/public involvement programs that complement their duties and benefit management and protection of natural resources. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4460, DCE-460.

CEN-4465 Hazard Assessment and Public Safety (3.00 cr.) An acquisition of skills and knowledge necessary to recognize and respond to public safety incidents. Students will be expected to actively participate in the planning and delivery of Occupational Health and Safety Standards, hazard recognition and mitigation. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4465, DCE-465.

CEN-4470 Habitat Protection (3.00 cr.) Students acquire the skills and knowledge necessary to interpret environmental legislation designed for natural habitat protection. Students utilize approved techniques to identify and investigate disturbances, and identify and evaluate incidents of non-compliance and develop appropriate courses of action. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4470, DCE-470.

CEN-4475 Problem Wildlife Field Techniques (3.00 cr.) Wildlife damage to crops, property, livestock as well as wildlife-human conflicts are complex and politically sensitive issues. Students develop competency in wildlife control, capture, and conflict prevention techniques. A large component of this course will deal with issues such as public safety, policies and procedures, depredation investigation and incident planning. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4475, DCE-475.

CEN-4480 Administrative Techniques (3.00 cr.) Students acquire, demonstrate and apply knowledge relevant to the placement agency/organization including organizational structure, administrative responsibilities, policies, procedures, directives and mandates. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4480, DCE-480.

CEN-4485 Program Management (3.00 cr.) Students will be directly involved with the planning, management and delivery of a program related to the field of conservation enforcement or habitat protection. Review and implementation of applicable agency policies applicable to the program will form the basis for program management. Not available for supplemental. Work Experience (3.0). Equivalent to DCE-4485, DCE-485.

Course Descriptions CEN 4491 - CHP 1150

CEN-4491 Senior Enforcement Project (6.00 cr.) A self-directed learning experience in which students research and report on key issues relevant to one or more of the goals of conservation law enforcement through a series of briefing notes. Topic selection must be relevant to the needs of the placement agency and location. Not available for supplemental. Work Experience (6.0). Equivalent to DCE-4491, DCE-491.

CEN-4496 Independent Study (6.00 cr.) A self-directed learning experience in which students pursue a research topic encompassing one or more of the goals of conservation law enforcement. Students are required to demonstrate abilities in reviewing literature, collecting and analysing field data, and advanced written communication skills. Initial outlines of proposed studies require approval by the faculty supervisor. Not available for supplemental. Independent Study (6.0). Equivalent to DCE-4496, DCE-496.

(CHM) CHEMISTRY

CHM-0020 Chemistry 0020 (6.00 cr.) An integration of the theoretical study of chemistry with laboratory experiments and assignments. Topics covered are the study of chemical bonding, gases, solution chemistry including acids and bases, and quantitative relationships in chemical changes. Laboratory work emphasizes proper techniques, the methodology of scientific problem solving, interpretation of data, and laboratory report writing. Students registering in this course should have successfully completed SCI-0010 or Science 10 or equivalent. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take CHM-0020L (Required, Concurrent).

CHM-0030 Chemistry 0030 (6.00 cr.) A study of thermochemical changes, electrochemical changes, organic chemistry and related chemical changes, as well as equilibrium with a focus upon acid-base systems. Laboratory work integrates theoretical concepts with experimentation, with emphasis placed upon proper technique, the methodology of scientific problem solving, the interpretation of collected data and report writing. Students registering in the course should have successfully completed CHM-0020 or Chemistry 20 or equivalent. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take CHM-0030L (Required, Concurrent).

CHM-0085 Chemistry 0085 (5.00 cr.) An integration of the theoretical study of chemistry with laboratory experiments and assignments. Topics covered are the study of chemical bonding, gases, solution chemistry including acids and bases, and quantitative relationships in chemical changes. Laboratory work emphasizes proper techniques, the methodology of scientific problem solving, interpretation of data, and laboratory report writing. Students registering in this course should have successfully completed SCI-0075 or equivalent. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to CHM-085. Requisite courses: Take CHM-0085L (Required, Concurrent).

CHM-0095 Chemistry 0095 (5.00 cr.) A study of thermochemical changes, electrochemical changes, organic chemistry and related chemical changes, as well as equilibrium with a focus upon acid-base systems. Laboratory work integrates theoretical concepts with experimentation, with emphasis placed upon proper technique, the methodology of scientific problem solving, the interpretation of collected data and report writing. Students registering in this course should have successfully completed CHM-0085 or Chemistry 20 or equivalent. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to CHM-095. Requisite courses: Take CHM-0095L (Required, Concurrent).

CHM-1151 Chemistry in Context (3.00 cr.) This course is designed for non-chemistry majors. Students will become chemistry literate while applying chemical principles to broader social issues. Topics include: the air we breathe, the ozone layer, global warming, energy, water, acid rain, nuclear fission and fusion, plastics and polymers, organic molecules in drugs and in the environment, nutrition and future developments. Instruction (3.0). Equivalent to CHM-151.

CHM-1155 Chemistry I (3.00 cr.) An introduction to the essential principles of inorganic chemistry. Topics include chemical bonding and molecular structure, periodicity, stoichiometry, as well as acid/base, oxidation/reduction, and complexation reactions applied in an environmental context. Weekly labs supplement lecture content. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take CHM-1155L. (Required, Concurrent).

CHM-2255 Chemistry II (3.00 cr.) This course will examine the structure, nomenclature and chemical bonding of carbon compounds. The physical properties and chemical reactivity of organic molecules will be discussed in lecture and lab. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take CHM-1155 (Required, Previous). Take CHM-2255L. (Required, Concurrent).

CHM-4455 Analytical Chemistry (3.00 cr.) This course will focus on the design, operation, and applicability of various pieces of analytical equipment used in the chemical analysis of environmental samples. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take CHM-4455L. (Required, Concurrent).

CHM-4456 Ecotoxicology (3.00 cr.) This course will examine the structure, transfer mechanisms, and impacts of natural and anthropogenic chemicals that can be toxic to the environment. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take CHM-4456L (Required, Concurrent).

(CHP) COMMUNITY HEALTH PROMOTION

CHP-1150 Cultural Seminar (1.50 cr.) The cultural seminar focuses on the rich cultures and histories of the FNMI peoples and is intended to facilitate professional learning for the Community Health Promotion Program students related to cultural competency, cultural sensitivity and cultural safety. Through Elder support and program facilitators, students are introduced to a variety of topics related to FNMI cultures, histories, traditions and perspectives. Graded: CR/NCR. Not eligible for Prior Learning Assessment. Not available for supplemental. Instruction (2.0).

Course Descriptions CHP 1151 - CIT 1156

CHP-1151 Healthcare & Health Promotion - FNMI (3.00 cr.)
An introduction to healthcare and health promotion in the context of Canadian First Nations, Inuit and Metis (FNMI) populations. Topics include the key concepts and terms, the social determinants of health, the impact of colonization on indigenous health, the history of healthcare in Canada, the roles and responsibilities of governments and healthcare practitioners. The course introduces students to professional behaviors and skills related to CHP practice including the ethical code of conduct, academic referencing, medical terminology, professional communication and documentation. Not available for supplemental. Instruction (3.0).

CHP-1152 Basics of Health Promotion Practice (3.00 cr.) An introduction to the basics of theory and practice in health promotion. Topics include: empowerment and community, health promotion strategies at the individual, group, organization, community and policy levels, individual, team and community strengths, and workplace behaviours and skills related to Community Health Promotions practice. Within the context of the Social Determinants of Health and their home community, students will develop culturally appropriate health education/ health promotion materials to address a selected health issue. It is recommended that students have successfully completed CHP-1150 and CHP-1151 before registering in CHP-1152. Not available for supplemental. Instruction (3.0).

CHP-1155 Community Health Promotion Practice I (3.00 cr.) A preceptored practicum experience that provides the opportunity to integrate and apply the knowledge, skills, attitudes and judgments acquired throughout the program. Students will engage in the roles and responsibilities that will facilitate the transition to a certificate graduate role. Preferences for placement will be entertained to assist students in completing the practicum near or in their home communities. Graded: Pass/Fail. Not available for supplemental. Work Experience (3.0). Requisite courses: Take BIO-1178, BIO-1156, BIO-1179, CHP-1150, CHP-1151, CHP-1152, COM-1162, ENG-1150, NAT-1150, PSY-1160. (Required, Previous).

CHP-2250 Community Health Promotion - Lifespan (3.00 cr.) A focus on health promotion for individuals and families from a lifespan approach and within the context of underlying mechanisms such as environment, culture, ethnicity, family, genetics, and gender. Students examine health assessment, advocacy and health promotion practice. Theories and principles address physical, cognitive, and psychosocial growth and development. Through case study exercises, students apply an assessment and planning framework as strategies to remove barriers and to increase individual and/or family health and well-being. Not available for supplemental. Instruction (3.0).

CHP-2251 Community Mental Health & Addictions (3.00 cr.) The study of mental health and addiction, this course emphasizes communities' strengths and resiliencies in coping and responding to mental health and addiction issues. Students are provided with the basic knowledge to critically analyze factors contributing to issues of mental health and substance abuse. Students explore various classifications of mental disorders and addiction, current treatment, intervention, prevention, and health promotion, and they will critically reflect on the impact of mental illness and addictions on individuals, families and communities. Not available for supplemental. Instruction (3.0). Requisite courses: Take CHP-2250 (Required, Previous).

CHP-2252 Comm.-Based Hlth Interventions (6.00 cr.)
The application of the skills necessary to plan, implement and evaluate a community-based health intervention in a community setting. This course introduces ecological theory which identifies the four social levels of groups, organizations, communities and policies, and focuses student work on these. Students will apply knowledge and skills acquired in this course and throughout their program of study toward the completion of a capstone project addressing a current and significant community health issue at the group, organizational, or community level. Not available for supplemental. Instruction (6.0). Requisite courses: Take CHP-2250, RSR-2254 (Required, Previous).

CHP-2255 Community Health Promotion Practice II (3.00 cr.) A preceptored practicum experience that provides the opportunity to integrate and apply the knowledge, skills, attitudes and judgments acquired throughout the program. Students will engage in the roles and responsibilities that will facilitate the transition to a diploma graduate role. Preferences for placement will be entertained to assist students in completing the practicum near or in their home communities. Not available for supplemental. Graded: Pass/Fail. Work Experience (3.0). Requisite courses: Take CHP-2251, CHP-2252, HUM-1155, NAT-2250, PSY-1170, RSR-2254, SOC-1160, SOC-2273 (Required, Previous).

(CIT) COMPUTER INFORMATION TECHNOLOGY

CIT-1152 Computer Hardware Maintenance (3.00 cr.) A skills based approach to computer hardware safety, trouble shooting, maintenance, and repair. Involves working safely with a computer to install and maintain hardware components and install and configure an operating system. Not available for supplemental. Instruction (3.0). Equivalent to CIT-152.

CIT-1154 Computer Programming I (3.00 cr.) An introduction to programming, including basic to intermediate components and features. Theory is supplemented by practical examples concentrating on business-oriented functions. Structured, top-down, modular design is reinforced. Students will be able to write stand-alone applications and intermediate-sized routines, which form part of a larger application. Not available for supplemental. Instruction (5.0). Equivalent to CIT-154, CIT-153.

CIT-1156 Computer Programming II (3.00 cr.) A skills based approach to building reusable objects making use of encapsulation, polymorphism and inheritance. Emphasis is on using object oriented approaches to solving problems. Not available for supplemental. Instruction (4.0). Equivalent to CIT-156, CIT-254. Requisite courses: Take CIT-1154, MTH-1152. (Required, Previous).

Course Descriptions CIT 1157 - CIT 2275

CIT-1157 HTML and Web Publishing (3.00 cr.) A skills based approach to World Wide Web publishing. Includes authoring web pages using HTML and CSS, as well as development of JAVA scripts. Not available for supplemental. Instruction (3.0). Equivalent to CIT-157.

CIT-1158 Computer Networking I (3.00 cr.) An introduction to network technology including terminology, hardware, software, wiring and line features. Includes theory and practical experience with basic network technology. Students will establish simple peer-to-peer networks. Not available for supplemental. Instruction (1.5), Lab (2.5). Equivalent to CIT-158. Requisite courses: Take MTH-1152; (Required, Previous). Take CIT-1158L (Required, Concurrent).

CIT-1163 Database Management Systems (3.00 cr.) A knowledge and skills based approach to relational database development and management. Emphasis is on designing, developing, loading, modifying, and querying a database environment using a host language. Also includes discussion and application of data structures, models of hierarchical, network, and relational databases, discussion of storage devices, data administration and data analysis, design and implementation. Not available for supplemental. Instruction (4.0). Equivalent to CIT-163, CIT-262.

CIT-2255 Computer Networking II (3.00 cr.) A skills based approach to addressing problems in client/server network administration. Includes the development and maintenance of software applications distributed among several computers, including requirements for analysis, design, and implementation and testing. Covers client/server implementations, static analysis techniques, system safety, security, and integrity. Not available for supplemental. Instruction (1.0), Lab (2.0). Equivalent to CIT-255. Requisite courses: Take CIT-1158; (Required, Previous). Take CIT-2255L (Required, Concurrent).

CIT-2259 Computer Networking III (3.00 cr.) A capstone course which augments networking, programming and database development techniques with security practices and technologies to protect the LAN and WAN network resources from various threats associated with the integration of the Internet. Not available for supplemental. Instruction (1.0), Lab (2.0). Equivalent to CIT-259. Requisite courses: Take CIT-1157, CIT-1158, CIT-1163 CIT-2255; (Required, Previous). Take CIT-2259L (Required, Concurrent).

CIT-2260 Algorithms and Problem Solving (3.00 cr.) An intensive orientation to various computer science algorithms. Emphasis is on solution efficiency. Students are expected to be literate and operational in a computer language. Lectures will be language neutral. Labs will be problem-solving exercises. Not available for supplemental. Instruction (3.0). Equivalent to CIT-260. Requisite courses: Take CIT-1156; (Required, Previous).

CIT-2262 Operating Systems Theory (1.50 cr.) An introduction to operating system functions, including hardware interfacing, process creation and scheduling, deadlocks, memory management and system security. Not available for supplemental. Instruction (2.0).

CIT-2263 Introduction to Linux (1.50 cr.) An introduction to the Linux environment utilizing the command line as well as the graphical interface. Includes file system navigation, file commands, system administration, job control and a variety of the utilities that are available. Not available for supplemental. Instruction (2.0).

CIT-2265 Web Programming (3.00 cr.) A skills based approach to web server management, server side languages and software environments available for advanced database enabled web-based solutions. Not available for supplemental. Instruction (4.0). Equivalent to CIT-265. Requisite courses: Take CIT-1156, CIT-1157, CIT-1158, CIT-1163; (Required, Previous).

CIT-2268 User-Centred Interface Design (3.00 cr.) A skills-based approach to creation of user-centred interfaces for businesses and other organizations. Includes design principles, usability goals and measurement, consideration of demographics, addressing user expectations, composition and layout, form versus function, navigation, extensibility, and common platforms for deployment. Interfaces may be applied to mapping, databases, social networking, or mobile use. Not available for supplemental. Instruction (3.0). Equivalent to CIT-268. Requisite courses: Take CIT-1154, CIT-1157. (Required, Previous).

CIT-2269 Mobile App Development (3.00 cr.) A skills-based approach to the technologies utilized by mobile devices. Includes development platforms and native application development with integration of mobile device features. Instruction (3.0). Requisite courses: Take CIT-1156, CIT-1163. (Required, Previous).

CIT-2270 IT Integration Seminar (1.50 cr.) A preparation for the IT field work experience which integrates issues in information technology workplaces. Includes resume preparation, job search strategies, IT workplace professionalism, and legal and ethical issues in information technology. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0). Equivalent to CIT-270. Requisite courses: Take CIT-1152, CIT-1156, CIT-1157, CIT-1158, CIT-1163, and ENG-1168. (Required, Previous).

CIT-2271 IT Field Work (3.00 cr.) A field work experience in an approved information technology corporate setting which provides in-depth professional exposure. Requires approximately 200 hours of practicum work. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Equivalent to CIT-271. Requisite courses: Take CIT-2255, CIT-2265, CIT-2270 (Required, Previous).

CIT-2275 Systems Analysis & Design I (3.00 cr.) A systems development approach to the use of structured analysis methods within the framework of the established life cycle of a computer system. Includes initiation, preliminary investigation, analysis of systems requirements, fact-finding, data-flow concepts and diagrams, cost/benefit analysis, design of input/output and controls, on-line system design considerations, system testing and implementation, hardware and software selection. Not available for supplemental. Instruction (2.0), Lab (3.0). Equivalent to CIT-150, CIT-275. Requisite courses: Take CIT-1156, CIT-1158, CIT-1163 and ENG-1168. (Required, Previous). Take CIT-2275L (Required, Concurrent).

Course Descriptions CIT 2276 - CJP 1159

CIT-2276 Systems Analysis & Design II (3.00 cr.) Building on previously developed skills, students will work in a functional team environment using the systems development life cycle to analyze, design and implement a live system. Human factors and ethical issues will be stressed. Not available for supplemental. Instruction (2.0), Lab (3.0). Equivalent to CIT-250, CIT-276. Requisite courses: Take CIT-2275; (Required, Previous). Take CIT-2276L (Required, Concurrent).

(CIV) CIVIL ENGINEERING TECHNOLOGY

CIV-2256 Civil Software Applications (3.00 cr.) A study of the use of industry-standard software, concepts and applications for civil engineering, including Architectural Engineering and Construction (AEC) and Geographic Information Systems (GIS) software. The major focus will be on real-world applications of industry relevant design software. Students will also build on spreadsheet and database skills to be used later in the program. Not available for supplemental. Instruction (2.0), Tutorial (4.0). Requisite courses: Take CAD-1160. (Required, Previous). Take CIV-2256T (Required, Concurrent).

CIV-2257 Environmental Engineering (3.00 cr.) An introduction to pollution, water and wastewater characteristics, water and wastewater treatment, waste management, managing noise pollution, and the topic of energy. Not available for supplemental. Instruction (5.0). Equivalent to CIV-257. Requisite courses: Take ENF-2250. (Required, Concurrent).

CIV-2260 Highway Design (3.00 cr.) An expansion of the fundamental engineering principles taught in first year. Students will engage in a 360 degree process related to the planning, design, and construction practices of both urban and rural roadways in accordance to national and provincial standards. A significant portion of this course will emphasize the onsite/field application of conventional and GPS survey techniques used to reinforce theoretical concepts covered in class. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (3.0). Equivalent to CIV-260. Requisite courses: Take ENF-1170, ENF-2250, SUR-1180. (Required, Previous). Take CIV-2260L. (Required, Concurrent).

CIV-2262 Structural Design I (6.00 cr.) The application of the fundamentals required for designing timber and steel structural members and structures including tension members, beams, and columns. Design of connections between members will be introduced. Current codes and standards used for design are introduced and applied to theory and practical problems. Current industry standard software is introduced for timber and steel design applications. Not available for supplemental. Instruction (8.0). Requisite courses: Take ENF-1166. (Required, Previous).

CIV-2271 Water Resource Design (3.00 cr.) An exploration on the use and management of water resources including an introduction to the topics in water resources, hydrology and irrigation engineering. The topics to be covered include the hydrological cycle, precipitation, groundwater, stream flow, rational method, SCS method, hydrographs, river and channel routing, mass curve, storage dams, spillways, energy dissipaters, outlet work, gates, diversion work, drop structures, stone structures, and flexible channel lining for erosion control. Not available for supplemental. Instruction (6.0). Requisite courses: Take ENF-2250. (Required, Previous).

CIV-2274 Infrastructure Design (3.00 cr.) A capstone course covering applied technology fundamentals required for the design, construction, supervision and inspection of municipal servicing such as site and lot grading, storm and sanitary sewers, water distribution and residential surface improvements. Many aspects of this course will integrate computer technology with design functions. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0). Equivalent to CIV-274. Requisite courses: Take CIV-2256. (Required, Previous).

CIV-2275 Structural Design II (3.00 cr.) The application of the fundamentals required for designing reinforced concrete structural members and structures including beams, slabs, columns, and foundations. Current codes and standards used for design are introduced and applied to theory and practical problems. Current industry standard software is introduced for reinforced concrete design applications. Not available for supplemental. Instruction (5.0). Equivalent to CIV-2266, CIV-266. Requisite courses: Take CON-1165, ENF-1166. (Required, Previous).

CIV-2298 Work Experience (1.50 cr.) An 80-hour optional field work experience placement providing an opportunity for involvement in engineering disciplines related to Civil Engineering Technology. An application of program skills and knowledge through exposure to field-specific activities performed by engineering technologists on a day-to-day basis. Individuals are required to participate as part of an engineering team to complete work assignments as specified by the engineering supervisor or their appointee. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (1.5).

(CJP) CRIMINAL JUSTICE

CJP-1101 Criminal Justice Seminar I (1.50 cr.) This course is designed to meet the individual and group needs of students in the Criminal Justice program. Content relates to adjustment to college, personal growth, problem-solving, and self-esteem. It includes preparation for summer and/or permanent employment, and the personal and educational steps needed to acquire these goals. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (1.0). Equivalent to CJP-101.

CJP-1157 Preliminary Response and Investigation (3.00 cr.) An introduction to the investigative nature of the criminal justice field. Topics include the roles and responsibilities as a first responder on a criminal or non-criminal scene, documenting and reporting the scene and appropriate means to preserve, collect and package various types of evidence will be examined. Not available for supplemental. Instruction (3.0). Equivalent to CJP-157, CJP-170.

CJP-1159 Ethics and Critical Thought (3.00 cr.) An introduction to foundational knowledge and skill in the area of ethics and critical thought relating to criminal justice. Topics will include personal and organizational ethics, values, decision making and emotional intelligence. An emphasis on ethical dilemmas encountered in public safety. Not available for supplemental. Instruction (3.0).

Course Descriptions CJP 1160 - CJP 2281

CJP-1160 Introduction to Criminal Justice System (3.00 cr.) An introduction into the study of Canada's criminal justice system which consists of three major agencies: the police, the courts, and the correctional system. The structure of policing, the courts, and the correctional system are examined together with the development, role and functions of each agency. Not available for supplemental. Instruction (3.0). Equivalent to CJP-160.

CJP-1161 Ethics & Interpersonal Skills in CJ (3.00 cr.) This course provides foundational knowledge and skill in the area of ethics and skills relating to criminal justice professions. Topics emphasized will include self-awareness, professionalism and ethics, attitudes and their dynamics, and emotional and stress management. In addition, verbal and non-verbal communication will be a key component of this course. Instruction (3.0). Equivalent to CJP-161.

CJP-1163 Human Relations for Comm Veh Enforcement (3.00 cr.) In this course, students will examine the various dynamics of human behaviour that specifically relate to the duties of Commercial Vehicle Enforcement Officers. Students will learn about and practice various theories and skills about professionalism, ethics, dress and deportment, and communication principles. Instruction (3.0). Equivalent to CJP-163.

CJP-1178 Individuals With Disabilities (3.00 cr.) This course presents foundational information for justice related applications for a wide range of conditions and disabilities. Learners will propose best practices for interacting with the individual and working cooperatively with other community support agencies. A number of cognitive disabilities (including FASD), mental health conditions, addictions and medical conditions that may affect a person's behaviour will be discussed. Instruction (3.0). Equivalent to CJP-178.

CJP-1183 Diversity Issues in Criminal Justice (3.00 cr.) This course examines multiculturalism and its relationship to the criminal justice system in Canada. Among the issues discussed are the recognition, acceptance, and affirmation of ethnic, racial and religious diversity within the framework of Canada's policy of multiculturalism. Particular emphasis is placed on Aboriginal history and cultural traditions. Special attention is focused on the application of these issues to policing, corrections, and other aspects of the criminal justice system. Learners will have the opportunity to develop the sensitivities and skills which will assist them in understanding and working with different cultures, and to be responsive to the needs and expectations of culturally diverse communities. Instruction (3.0). Equivalent to CJP-183.

CJP-1185 Diverse Populations in Public Safety (3.00 cr.) Application of strategies to the challenges presented by diversity in the communities served by the public safety industry. Empathy and positive relationships with diverse members of the community that is being policed are emphasized. Focus on recognizing and responding in a positive manner to symptoms of mental illness and physical disability. Not available for supplemental. Instruction (3.0).

CJP-1188 Applied English & Investigative Writing (3.00 cr.) A practice of technical writing: clear, concise, and chronological writing for the public safety industry. Specific techniques for writing research reports, taking accurate notes, and writing investigative reports. An emphasis on APA conventions, grammar conventions, word choice and punctuation. Not available for supplemental. Instruction (3.0). Requisite courses: Take ENG-1175. (Required, Previous).

CJP-2252 Criminal Justice Practicum (3.00 cr.) Provides students an opportunity to experience daily operations of a specific police department or public safety agency and to assist them in making an educated career choice. Development of skills, knowledge and attitudes necessary to become successful in a chosen field. Although every effort will be made to facilitate the student's schedule, each applicant for the practicum must be aware of the possibility of having to work a variety of shifts, including weekends, evenings and midnights. An application process and security check will be required. Not available for supplemental. Work Experience (3.0). Equivalent to CJP-252.

CJP-2255 Notebooks and Reports (3.00 cr.) This course presents the writing and reporting skills especially unique to the criminal justice system. Emphasis will be placed on accuracy in compiling notes, reports and statements and the completion of police documents through situational assignments. Instruction (3.0). Equivalent to CJP-255, CJP-165.

CJP-2267 Natural Resource Legislation (3.00 cr.) This course covers the study of statutes, regulations and relevant case law pertaining to fisheries, parks, wildlife, and the environment, including the historical and constitutional aspects of this legislation. Overview of native hunting and fishing rights are part of the course. Instruction (5.0). Equivalent to CJP-267. Requisite courses: Take LAW-1161; (Required, Previous).

CJP-2269 Patrol Procedures (3.00 cr.) A skills-based approach necessary for students to conduct effective and efficient enforcement patrols. Areas of study include responsibilities and techniques, dealing with complaints, planning, conducting and evaluating patrols, compliance checks, searches, profiling resource users, basic maintenance, use and care of specialized enforcement tools and equipment, communication methods, and organized resource crime. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to CJP-3369, CJP-369. Requisite courses: Take LAW-1161 (Required, Previous). Take CJP-2269L (Required, Concurrent).

CJP-2278 Criminology (3.00 cr.) An introduction to the major theoretical concepts, both historical and modern, which provide explanations of crime, criminals, and criminality. The relationships with psychology and sociology, and between theory and practice, are included. Measurements of crime, social correlates and scientific foundations for a modern criminal policy are discussed. Not available for supplemental. Instruction (3.0). Equivalent to CJP-278.

CJP-2280 Intro to Commercial Vehicle Enforcement (3.00 cr.) An exploration of the roles and duties of a Commercial Vehicle Enforcement (CVE) officer and the relationship of CVE to the Public Safety community. Key legislation, vehicle safety inspection, driver and vehicle licensing requirements, dangerous goods, weights and dimensions will be considered. Instruction (3.0). Equivalent to CJP-280.

CJP-2281 Conflict Management (3.00 cr.) An introduction to the theory and dynamics of conflict, self-management and the preparation to apply related strategies and techniques to personal and professional practice. The practice of managing conflict with self, client and peers through case studies and scenarios. Not available for supplemental. Instruction (3.0). Equivalent to CJP-281, CJP-191, CJP-291.

Course Descriptions CJP 2283 - CMM 1185

CJP-2283 Criminal Investigative Techniques (3.00 cr.) This course introduces various investigative techniques available to law enforcement. It focuses on, but is not limited to, criminal investigative analysis, crime analysis, and statement analysis. The development of theories using a problem-solving model is a major component of this course. While students will apply some of these techniques in course activities, their awareness of subject matter experts in the various fields who are available to assist them will be increased. Not available for supplemental. Instruction (3.0). Equivalent to CJP-283, CJP-257.

CJP-2284 Criminal Investigative Theory (3.00 cr.) This course will give the learner a contemporary look at the criminal investigation process from a theoretical perspective. The challenges and unique aspects of key criminal offences will be covered. The primary focus will be on, but not limited to, auto theft, arson, break and enter, assault, organized crime, gang and other dangerous groups, terrorism, sexual offences, crimes against children, and death investigations. Not available for supplemental. Instruction (3.0). Equivalent to CJP-284, CJP-256.

CJP-2287 Crisis Intervention (3.00 cr.) An application of the theoretical concepts and skills acquired in previous courses. Focuses on the mechanics involved in a crisis situation. Skills and techniques for safe and effective intervention and mediation using exercises, simulation and reflections are emphasized. Not available for supplemental. Instruction (3.0). Equivalent to CJP-287.

CJP-2288 Investigative Techniques (3.00 cr.)
An introduction to various investigative techniques available to law enforcement. Focus of the course is on investigation, documentation and preservation skills with consideration for effective writing, community safety and other relevant issues in investigations. Proper search and seizure techniques will also be addressed. Not available for supplemental. Instruction (3.0).

CJP-2292 Police Organizations (3.00 cr.) This course will examine the roles, functions, and implementation of change that ensures an efficient and effective police service from the perspective of administration. This will involve the organizational structure, roles of police, police culture, leadership and the Police Act in relation to the operation of a police service. Instruction (3.0). Equivalent to CJP-292, CJP-268.

CJP-2293 Organizational Awareness in Publ. Safety (3.00 cr.) An investigation of police culture and subculture, competencies required for employment and positive relationships between police and the community. Topics include police competencies, professional portfolios, and relationships within the workplace. Gender and human rights issues in the workplace are explored in relation to these topics. Not available for supplemental. Instruction (3.0).

CJP-2294 Specialized Policing (3.00 cr.) Addresses current trends and challenges in investigation of specific crimes. Special issues in crime investigation units may be discussed; major crimes, economic crime, technology crime, drugs and undercover, tactical team and intelligence. Focus will be on current tools of investigation within specialized crime investigation units and how they are shaping trends in investigation. Not available for supplemental. Instruction (3.0).

CJP-2295 Traffic (3.00 cr.)
An application of the Traffic Safety Act through related activities. Topics include collision response, traffic control and direction, radar and laser use and violations. Problem-solving models are implemented throughout the course. Not available for supplemental. Instruction (3.0).

CJP-2296 Career Preparation for Public Safety (3.00 cr.) Prepare students for public safety organizations' application process. Employment standards are reviewed. Employment exams and documentation will be completed. Interviews and networking with agencies will broaden knowledge of available careers and competencies. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0).

(CMM) MULTIMEDIA

CMM-1153 Digital Audio (3.00 cr.)
An introduction to recording, editing, and mixing digital audio. Focus will be on applying the digital audio production process, including hardware and software applications, to produce and enhance creative projects. Instruction (3.0). Equivalent to CMM-153, CMM-155.

CMM-1156 Digital Video (3.00 cr.)
An introductory course that explores ways to create effective videos through the use of industry standard videography, editing and compositing techniques. Care and use of video equipment and related software will also be explored. Emphasis is placed on developing strong storytelling skills to produce engaging video content to be shared with online audiences. Instruction (4.0). Equivalent to CMM-156.

CMM-1163 Scripting for Multimedia and the Web (3.00 cr.) An introduction to developing web pages using the coding languages of the web. Focus is on designing and delivering interactive content using HTML, CSS and Javascript, while developing strategies for troubleshooting coding bugs. Instruction (4.0). Equivalent to CMM-163.

CMM-1165 Coding With Web Standards (3.00 cr.) An intermediate hands-on approach to the production of interactive content that utilizes web standard coding languages, libraries and frameworks. Focus is on exploration of techniques that embed and control rich-media elements. Instruction (5.0). Equivalent to CMM-165. Requisite courses: Take CMM-1163; (Required, Previous).

CMM-1185 The Principles of Animation (3.00 cr.) A hands-on application of the principles of animation will be used to create various animations. Focus will be on understanding and applying the animation development process, including sketching and storyboard design. Instruction (4.0). Equivalent to CMM-185, CMM-275.

Course Descriptions CMM 2284 - COM 1157

CMM-2284 Professional Portfolio (3.00 cr.) The application of best practices to create professional self-promotional material for print, online and social media. Aptitude tests will be used to focus intent and career goals. Emphasis will be placed on showcasing work with the goal of employment in the new media industry. Instruction (6.0). Requisite courses: Take CMM-2288, RSR-2270. (Required, Previous).

CMM-2285 3D Modeling and Animation With Maya (3.00 cr.) An intermediate hands-on approach to 3D design, using a variety of modelling and animation techniques. Emphasis will be on applying 3D rendering concepts to create realistic models and animations. Instruction (5.0). Equivalent to CMM-285. Requisite courses: Take CMM-1185; (Required, Previous).

CMM-2288 Programming Rich-Media Applications (3.00 cr.) A skill-based approach to development of highly interactive web content using advanced web coding libraries, frameworks, user interfaces and techniques. Focus will be on creating content for a wide variety of devices. Instruction (5.0). Equivalent to CMM-288, CMM-277. Requisite courses: Take CMM-1165; (Required, Previous).

CMM-2291 Professional Foundations (3.00 cr.) A study of the interrelated professional activities, trends, ethics and issues involved in the multimedia production industry. Emphasis is on creation of strong networks and understanding within three areas of industry: e-learning; video and motion graphics; web and interactive programming. Instruction (6.0). Equivalent to CMM-291.

CMM-2292 Proseminar (3.00 cr.) A collaborative class that allows students to research and present on various technical topics, as well as planning and facilitating an online industry event. Emphasis will be on improving research, presentation and collaboration skills. Instruction (6.0). Equivalent to CMM-292. Requisite courses: Take CMM-2291; (Required, Previous).

CMM-2293 Capstone Project (3.00 cr.) A capstone course that exposes students to planning, management, execution and presentation of a large-scale project. Emphasis is on a significant achievement in independent learning in a self-chosen area of applied concentration. Instruction (6.0). Equivalent to CMM-293. Requisite courses: Take CMM-2291, RSR-2270. (Required, Previous).

CMM-2295 Telling Stories II: Script to Screen (3.00 cr.) This course will give you the requisite skills to share your story with the world. This course will allow students to bring their story ideas to fruition by introducing them to the production and delivery of video. Using the narrative script developed in ENG-2290: Telling Stories I, students will develop skills in visual composition, lighting, audio, editing, titling and compression schemes for various delivery methods. A four-minute short film will serve as the final project and will be made accessible through a variety of formats: video sharing websites, CD, and cell phones. Instruction (3.0). Equivalent to CMM-295. Requisite courses: Take ENG-2290; (Required, Previous).

(COL) COLLEGE PREPARATION

COL-1103 Introduction to Learning Strategies (1.50 cr.) This course is an introduction to specific learning strategies students require to succeed in post-secondary programs. Students will explore a core set of chiefly academic learning strategies such as note-taking, memory, study reading, test- taking and time management. Instruction (1.0). Equivalent to COL-103.

COL-1130 Achieving College Success (3.00 cr.) This course develops the skills and attitudes necessary for success in post-secondary programs. Students learn and practice knowledge gained from research into goal setting, motivation, time management, memory and concentration, effective study reading and test-taking. Not available for supplemental. Instruction (3.0). Equivalent to COL-130, COL-105.

COL-1131 Leadership for FNMI Students (3.00 cr.) This course provides FNMI students with mentorship/leadership skills that will allow them to serve in leadership roles in the College and community. The course promotes meaningful involvement for students through fostering student connections, creating a greater capacity for student leadership, and developing effective communication skills. Students will participate in community-based activities and events, evaluate their roles, responsibilities and effectiveness as interconnected members of local, national and global communities, and appreciate the value of volunteering in the community as a complement to a successful career. Not available for supplemental. Instruction (3.0). Equivalent to COL-131, COL-106.

(COM) COMMUNICATION

COM-1137 Communication Skills (1.50 cr.) This is a 16-hour course for students enrolled in the Culinary Careers Diploma. The course focuses on communication skills necessary for attaining, maintaining and advancing in a career in the food service and hospitality industry. Not available for supplemental. Instruction (1.0). Equivalent to COM-137.

COM-1152 Transcultural Communication (3.00 cr.) This course is designed to assist international students to function confidently and comfortably across cultures and includes a focus on effective communication skills and on culturally appropriate attitudes. Students will also be expected to gain awareness of their own cultural identity and communication style that will serve as a foundation for understanding transcultural communication. Not available for supplemental. Instruction (3.0). Equivalent to COM-152.

COM-1155 Customer and Team Relations (1.50 cr.) Effective relations with both customers and team members are essential for organizations to be successful. This course equips students with customer service skills that will result in a Service Best certificate. Team relation exercises will help equip students to function in work settings. Instruction (3.0). Equivalent to COM-155.

COM-1157 Professional Communication in PSO (3.00 cr.) This course involves the basic skills and knowledge required to facilitate the successful completion of the application process of public safety organizations (PSO) such as police agencies, traffic enforcement agencies, and other law enforcement agencies. The emphasis is on preparing for a range of employment interviews, proper completion of forms required for employment and career planning. Instruction (3.0). Equivalent to COM-157, COM-153.

Course Descriptions COM 1158 - CON 1165

COM-1158 Leadership Communication Skills (1.50 cr.) This course will provide learners an opportunity to explore their personal communication style and to develop the interpersonal skills needed for effective relationships in the workplace. The importance of understanding group dynamics, leadership styles, conflict resolution strategies, and team development models will be reinforced using business scenarios. Learners will also gain knowledge on how to facilitate a successful meeting, as well as prepare for behaviour descriptive interview questions. Each learner will be exposed to public speaking by doing an individual presentation to their peers. Instruction (3.0). Equivalent to COM-158.

COM-1159 Applied Interpersonal Communication (3.00 cr.)
Healthy communication is an essential skill for justice professionals. This course requires learners to focus on self-awareness and self-esteem before moving into the interpersonal area of verbal and non-verbal communication. These concepts are the foundation of practical applications of the interviewing techniques, skills, and strategies required to gain information from offenders and effect personal change. A study of the ethical context for this work is key. Instruction (4.0). Equivalent to COM-159.

COM-1162 Interpersonal Relationships & Communic. (3.00 cr.) This course is designed to improve students' self-concepts and provide them with the skills to successfully relate with others on a personal, social and business basis. Designed for personal growth and attitude change, this course provides opportunities to develop communication skills, recognition and understanding of self concept, skills in enhancing interpersonal relationships, procedures for goal-setting and techniques for decision-making. Not available for supplemental. Instruction (3.0). Equivalent to COM-162.

COM-1164 Technical Communications (3.00 cr.) This course prepares students to function effectively as technologists by training them to apply databases and spreadsheets to engineering applications and problems, produce clear, effective correspondence, employment applications, reports, and deliver clear, effective oral presentations. Not available for supplemental. Instruction (6.0).

COM-1165 PS Communications/ Interpersl. Relations (3.00 cr.)
The development of interpersonal skills for professional and personal communication. An emphasis on communicating orally, teamwork and presenting effectively. Relevant topics from other courses in the program are used as a basis for further research and presentation. A focus on recognizing personal strengths and the strengths of others to collaborate on a team. Not available for supplemental. Instruction (3.0).

COM-1170 Helping Relationships (3.00 cr.) This course covers techniques of interpersonal communication through introduction to the helping relationships process. In the process, the client is an interactive participant; the direction of the interaction is provided by the client. Topics include problem-solving, decision-making, conflict resolution, characteristics of a helper, and the helping process. Hands-on helping skills are developed in order to communicate more effectively with clients. Not available for supplemental. Instruction (3.0). Equivalent to COM-170. Requisite courses: TAKE COM-1162 or NSG-1173; (Required, Previous).

COM-1177 Applied English and Communication (3.00 cr.) This course will focus on technical writing: clear, concise, and chronological writing for the public safety industry. Assignments will be integrated with other criminal justice classes' assignments. Writing for employment (portfolio, resume, cover letter, and application form) will be refined. Instruction (2.0). Equivalent to COM-177, COM-175. Requisite courses: Take ENG-1175; (Required, Previous).

COM-2263 Interpersonal Skills in Enforcement (3.00 cr.) This course covers the interpersonal skills needed to handle sensitive situations encountered when dealing with the public in the renewable resources conservation field. Emphasis is placed on verbal judo and technical communications. Students further enhance their verbal and written communication skills through various exercises. Instruction (3.0). Equivalent to COM-263.

COM-2275 Interviewing Methods (3.00 cr.) Students will demonstrate their competence in interviewing skills by creating a comprehensive interview plan for common scenarios and types of interviewees. Students will be expected to apply basic interviewing methods with a focus on structure and function. There is an emphasis on building interpersonal relationships to obtain various statements from complainants, victims and witnesses. Not available for supplemental. Instruction (3.0). Equivalent to COM-275.

COM-4460 Reports and Investigations (3.00 cr.) The ability to communicate in writing is an essential skill for the justice professional. Students will demonstrate competency in the completion of a variety of reports relevant to their placement agency, which may include pre-sentence and parole investigations, community assessment, institutional reports, social histories, assessments, incident reports and internal investigations. Technical competency is an expectation and content of reports must be appropriate. Students must demonstrate an understanding of the purpose of the reports, their routing and possible outcomes. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COM-460.

(CON) CONSTRUCTION

CON-1162 Engineering Management I (3.00 cr.) The application of project management principles and techniques to the on-site control of project works. An introduction to the Canadian legal system as well as health and safety legislation. The study of building contracts focusing on the duties, rights and obligations of contracting parties, the general conditions of the contract, and the tendering process. Not available for supplemental. Instruction (6.0).

CON-1165 Construction Materials (3.00 cr.) An introduction to the fundamentals of concrete and steel as they relate to the civil engineering industry. Students will be provided with an understanding of the structure, behavior, properties, processing and application of these materials. The main topics of discussion will include CSA and ASTM Standards for quality control of ingredients, manufacturing processes and final product requirements for both materials.

Laboratory work will be used to reinforce and supplement theoretical concepts. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (3.0). Requisite courses: Take CON-1165L. (Required, Concurrent).

CON-1180 Construction Engineering I (3.00 cr.) A practical overview of construction problems, building techniques, methods and materials of construction. Application of the Alberta Building Code and reading blueprints will be closely aligned with the construction process overview. Methods, materials and building techniques will be illustrated through the introduction of current CAD design software. Not available for supplemental. Instruction (6.0). Requisite courses: Take CAD-1160, COM-1164. (Required, Previous).

CON-2255 Construction Engineering II (3.00 cr.) A practical overview of construction problems, building techniques, methods and materials of construction. Application of the Alberta Building Code and reading blueprints will be closely aligned with the construction process overview. Methods, materials and building techniques will be illustrated through the introduction of current CAD design software. Not available for supplemental. Instruction (5.0). Equivalent to CON-255, CON-250, CON-217, CON-224. Requisite courses: Take CON-1180. (Required, Previous).

CON-2260 Engineering Management II (3.00 cr.) A study of the fundamentals of business management and financial analysis in the construction industry. The first part of the course covers key project management principles including business organizations structure, strategic planning and management, total quality management processes and procedures, leadership, ethics, resolving disputes, market development strategies, human resources management, and risk management. The second part of the course covers financial analysis including break-even point, depreciation, economic order quantity, ledger, journal, balance sheet and financial statements. Not available for supplemental. Instruction (5.0). Requisite courses: Take CON-1162. (Required, Previous).

(COR) CORRECTIONS

COR-1152 Fundamentals of Corrections (3.00 cr.) This course examines correctional systems in Canada. It covers the history of corrections, the role of corrections in contemporary society, and the interrelationships between the various components (including community corrections and correctional institutions). Correctional treatment and aftercare are reviewed. Emphasis is placed on the formal and informal relationships that exist in correctional organizations, including the roles of both staff and inmates. Instruction (2.0). Equivalent to COR-152, COR-150, CJP-150.

COR-1153 Career Development Strategies (1.50 cr.) In this course, students will assess their backgrounds and skills and prepare professional resumes and cover letters. In addition, they will be exposed to the styles of interviewing used in Justice professions, and begin the development of their Employment Portfolio. Instruction (1.0). Equivalent to COR-153.

COR-1154 Suicide Prevention (1.50 cr.) This interactive course meets professional training requirements by helping participants recognize risk and learn how to intervene to prevent the immediate risk of suicide. Learners will be sensitized to their own attitudes towards suicide and identify the intervention needs of a person at risk. They will develop their skills through observation and supervised simulation experiences in large and small groups. Instruction (1.0). Equivalent to COR-154.

COR-1180 Youth in the Justice System (3.00 cr.) This course explores the complex relationship between family and social conditions and antisocial behaviour in young people. Included are: developmental theories and the role of modeling; risk and protective factors for criminal behaviour; an analysis of specific behaviours including gang membership, substance abuse, prostitution, and violent crime; and the importance of prevention and early intervention. Statistical trends and patterns, and the role of media are discussed. The evolution of Canadian law leading up to the Youth Criminal Justice Act as a response to crime by young people is examined. Specific sections of the Youth Criminal Justice Act will be addressed. Not available for supplemental. Instruction (3.0). Equivalent to COR-180.

COR-2253 Correctional Classification (3.00 cr.) This course addresses the central process of correctional classification, which involves assigning housing, programs and the level of supervision required by offenders. The implications of classification for case management, security and control, and the management of risk are included. Not available for supplemental. Instruction (3.0). Equivalent to COR-253, CJP-253.

COR-2262 Drugs in Corrections (3.00 cr.) Drug recognition and the physiological effects of drugs and alcohol, identification of symptoms of intoxication and withdrawal are studied. Identification and offender management practices related to drug strategies are reviewed. Not available for supplemental. Instruction (3.0). Equivalent to COR-262, CJP-262.

COR-2277 Corrections Administration (3.00 cr.) An analysis of public and private sector organizations with particular focus on the administration of correctional structures and agencies. Topics include defining administration, its principle functions and theoretical underpinnings. Considers the role of various levels of correctional administration in planning, decision making, change management, legislative influences and human resource management as well as how these various functions and influences contribute to effective and efficient organizational functioning. Instruction (3.0). Equivalent to COR-277, CJP-277.

COR-2279 Correctional Casework & Counselling (3.00 cr.) This course is an examination of the principles, ethics, and values associated with effective casework processes in corrections. Case studies are employed to give students direct and practical experience in the casework processes used in correctional organizations and agencies. An overview of counselling techniques employed within corrections and young offenders is included. Instruction (3.0). Equivalent to COR-279, CJP-279.

Course Descriptions COR 2287 - COR 4472

COR-2287 Crisis Resolution (3.00 cr.) Upon completing this course, learners will recognize that crises are turning points in offenders' lives which involve both threats and opportunities. Included in the course content are a brief overview of key areas of offender victimology, the non-violent de-escalation of crises, and the process of validation and importance of relationships in terms of facilitating personal change in offenders. Learners will learn how to assist offenders in the management of their behaviour and emotions and will apply the steps of resolution-based crisis intervention in real-life role-play situations. Instruction (3.0). Equivalent to COR-287.

COR-2290 Correctional Practices (3.00 cr.) The application of specific practices of correctional professionals and accompanying reports required. A practical course dealing with the daily job functions common to both Federal and Provincial corrections. Techniques for searching facilities and inmates, application of restraints, appropriate use of force models, avoiding manipulation by offenders, and writing a variety of reports required by institutional services and community corrections. Not available for supplemental. Instruction (3.0). Equivalent to COR-290. Requisite courses: Take ENG-1175. (Required, Previous).

COR-3374 The Professional Justice Worker (3.00 cr.) The purpose of this course is to provide justice professionals with the tools to face the daily complexities of their workplace. Among the subjects addressed are adaptation to change, stress management, workload and time management, the achievement of personal balance, self-assessment and personal care, the development and maintenance of a fit and healthy lifestyle, emotional intelligence and career planning. A significant element of the course is the completion of a personal self-management plan. Instruction (3.0). Equivalent to COR-374.

COR-3385 Issues and Trends in Justice (3.00 cr.) In this course, learners will explore current and emerging issues associated with the incarceration and treatment of offenders around the world, and the impact of these issues on staff and the management of offenders. Instruction (3.0). Equivalent to COR-385.

COR-4450 Community/Institutional Resources (3.00 cr.) In this course, students learn about the resources available to support offenders in the community or the institution (depending on the work setting). Students will demonstrate an awareness and understanding of the resources available for changing behaviour; promoting personal development and growth; recreation, and personal health. In terms of staff, students will demonstrate an awareness and understanding of resources available for personal health and wellness, promotion and development, and employee assistance programs. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-450.

COR-4456 Workplace Technology in Justice (3.00 cr.) This course tests students' knowledge of, and competence in, the technology associated with their field of study or employment. It may include, but is not restricted to, institutional technology (including door and key control systems, sensing devices, emergency alarms, body alarms, scanners, cameras and other security devices), tactical technology (including the use of lethal and non-lethal weapons, security hardware, and other technical aids to security), and information technology (inmate management information systems, organizational software programs, and the operation of associated hardware). This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-456.

COR-4460 Practice of Client Supervision (3.00 cr.) This course covers tasks and situations related to client supervision in a variety of justice and human service environments. Students learn and demonstrate competency in interviewing clients, observing and assessing their behaviour, and documenting their observation; directing and controlling clients singly and/or in groups; and correcting behaviour and carrying out discipline appropriately. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-460.

COR-4466 Applied Correctional Methods (3.00 cr.) In this course, students apply and demonstrate competency in the skills necessary to be effective correctional professionals. These include an understanding of the goals and objectives of the agency and their application; competency in the essential tasks of the agency; and application of skills specific to the agency. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-466.

COR-4467 Management of Offender Movement (3.00 cr.) The movement of offenders to and from institutions for court, medical, or compassionate reasons is an integral aspect of correctional operation. Students must demonstrate an awareness of security issues relative to offender escorts, including security ratings; competence in the application of restraining devices; and sensitivity to issues relating to offenders appearing in public under escort. Demonstrated competency in the supervision of work crews and camps may also be considered. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-467.

COR-4470 Administrative Methods in Justice (3.00 cr.) In this course, students acquire, demonstrate and apply knowledge relevant to the placement agency or organization including mission statement, organizational structure, administrative responsibilities of key positions, policy, procedures and directives. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-470.

COR-4471 Program Management (3.00 cr.) In this course, students will be directly involved with the day-to-day management and supervision of programs in the placement agency. Review and application of policy will be essential topics of this course. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-471.

COR-4472 Program Development (3.00 cr.) In this course, students will demonstrate the ability to initiate and develop a program related to the goals of the agency.

Competence will be demonstrated through development of a plan, determination of resources required, organization, completion of the initial objective, and assessment of results. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-472.

COR-4473 Mentorship in Human Service Organization (3.00 cr.) Mentorship offers senior students the opportunity to learn and demonstrate skills necessary to develop junior personnel within the agency. Students in this course must demonstrate effective supervision and leadership skills including training and coaching of junior staff, evaluation career counselling and mentoring. This is a Directed Field Study (DFS) course. Not available for supplemental. Instruction (3.0). Equivalent to COR-473.

(CPL) CAREER PLANNING

CPL-1150 Community Service Learning (3.00 cr.) This course will provide opportunities for students to participate in Service Learning, a program that connects the curriculum to volunteerism within the community. Students are matched with community service projects related to their classroom studies. While meeting actual community needs, students gain valuable hands-on experiences which enhance their educational goals. In addition to the academic reinforcement, Service Learning strengthens student leadership skills and offers opportunities to better understand such values as human diversity, social justice, and engaged citizenship. Instruction (3.0). Equivalent to CPL-150.

(CPU) COMPUTERS

CPU-1151 Introduction to Computers (1.50 cr.) 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. Instruction (3.0). Equivalent to CPU-151.

CPU-1160 Geomatics Programming I (3.00 cr.) An introduction to programming for Geographical Information Systems with emphasis on the creation of simple and complex routines to build an understanding of the structure of Python language, build applications to automate survey data processing and graphical software packages. Not available for supplemental. Instruction (3.0). Equivalent to CPU-2255, CPU-255. Requisite courses: Take COM-1164. (Required, Previous).

CPU-1165 Designing Spreadsheet Applications (3.00 cr.) A skills-based approach to using spreadsheet applications to solve common business problems. Includes macros and spreadsheet integration with other software programs. Not available for supplemental. Instruction (3.0). Equivalent to CPU-165, BUS-266.

CPU-2251 Computer Applications (1.50 cr.) This course covers projects requiring the use of spreadsheet, word processing, database and/or presentation software. It bridges the gap between merely knowing the various tasks a certain type of software can perform and actually using the program to edit a newsletter, design a three-fold brochure, prepare and present reports, or perform some basic data analysis. Students are introduced to integrated applications. Not available for supplemental. Instruction (3.0). Equivalent to CPU-251. Requisite courses: TAKE CPU-1151; (Required, Previous).

CPU-2253 Technology in Education (3.00 cr.) This course provides learners with an exposure to and analysis of educational software. Assistive technology in educational settings, including K - Grade 12 information technology curriculum are covered. Not available for supplemental. Instruction (3.0). Equivalent to CPU-253.

CPU-2254 Basic Desktop Publishing (3.00 cr.) A skills-based approach to the creation of effective business publications, using industry standard software to effectively communicate intended messages. Emphasis is the evaluation and integration of creative design elements. Not available for supplemental. Instruction (3.0). Equivalent to CPU-254.

CPU-2275 Geomatics Programming II (3.00 cr.) An examination of advanced concepts in programming with Python for Geographical Information Systems. Emphasis will be placed on complex routines and data structures for automating data transfer from raw survey data to graphical software packages and for accessing ArcGIS functionalities utilizing Python libraries. Not available for supplemental. Instruction (4.0). Equivalent to CPU-275. Requisite courses: Take CPU-1160. (Required, Previous).

(CSP) CENTRAL STERILE PROCESSING

CSP-1142 MDR Practicum (6.00 cr.) 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 preceptored practicum is offered at Chinook 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. Not available for supplemental. Graded: CR/NCR. Work Experience (6.0). Requisite courses: Take BIO-1162, COM-1162, CPU-1151, CSP-1150, CSP-1160, ENG-1154. (Required, Previous).

CSP-1150 Medical Terminology/Anatomy & Physiology (3.00 cr.) 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 is not subject to supplemental. Instruction (4.0). Equivalent to CSP-150.

CSP-1160 Practices Surgical Instrument Processing (6.00 cr.) 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 is not subject to supplemental. Instruction (6.0). Equivalent to CSP-160.

(CUL) CULINARY CAREERS

CUL-1115 Management Controls (3.00 cr.) A study of control for budgeting in the food and beverage industry. Emphasis is placed on kitchen math, purchasing and receiving control, and interpreting financial reports. Not available for supplemental. Instruction (3.0).

CUL-1116 Breakfast Soups and Pantry (3.00 cr.) A skills-based approach to preparing and serving breakfast dishes, soups, salads, and dairy. Emphasis is placed on organizing activities to meet service schedules. Not available for supplemental. Instruction (3.0).

Course Descriptions CUL 1117 - CYC 1175

CUL-1117 Vegetables and Farinaceous (3.00 cr.) An introduction to the concepts of purchasing, storing, and preparing a variety of fruits, vegetables, starches, pasta, and pasta sauces. Not available for supplemental. Instruction (3.0).

CUL-1118 Production Skills (6.00 cr.) A lab-based review of the required disciplines in the hospitality industry. Focus will be on observed attendance, daily practical performance and a comprehensive practical exam. Not available for supplemental. Instruction (6.0).

CUL-1120 Meat Cutting and Meat Cookery (6.00 cr.) A skills-based approach to purchasing, portioning, seasoning, cooking, holding and serving a variety of meat, poultry, fish, seafood and related proteins. Not available for supplemental. Instruction (6.0).

CUL-1121 Bakeshop (6.00 cr.) An introduction into bakeshop practices. Emphasis is on accurate weights and measures as they pertain to bakeshop ingredients. A skills-based approach to yeast products, cookies, pastries, pies, tortes, cakes and desserts. Not available for supplemental. Instruction (6.0).

CUL-1122 Stocks and Sauces (3.00 cr.) A study of modern techniques for producing basic stocks and their applications in recipes for sauces and glazes. Not available for supplemental. Instruction (3.0).

CUL-1127 Culinary Careers Introduction (3.00 cr.) An introduction to the fundamental skills required of a cook. Focus is on kitchen terminology, food safety, tools and equipment and safe working practices. Not available for supplemental. Instruction (3.0). Equivalent to COC-1127, COC-127.

CUL-2201 Food Service Management. and Saucier (6.00 cr.) Skills-based approach to advanced techniques in menu planning and inventory control. Emphasis is on applying gained industry experience to advanced soups and sauces. Not available for supplemental. Instruction (6.0).

CUL-2207 Lunch Express Entremetier and Nutrition (6.00 cr.) The application of gained skills in advanced line cooking. Emphasis is on plate presentation of lunch items that offer the latest trends in culinary artistry that encompasses today's nutritional requirements for good health. Instruction (6.0).

CUL-2208 Buffets and Bakery (6.00 cr.) A study of buffets in their many forms. Emphasis is on creating and executing buffets that showcase the latest trends in modern cuisine. An application of techniques for garnishing and presenting high quality and attractive sweet and savory presentations. Instruction (6.0).

CUL-2212 Evening Dining and Preparing Proteins (6.00 cr.) Skills-based approach to advanced evening dining menu selections including appetizers, soups, entrees and desserts. Emphasis is placed on advanced cooking and presentation techniques for proteins, vegetables, starches and desserts. Instruction (6.0).

CUL-2213 Gala Banquets (3.00 cr.) A hands-on experience related to gala banquets. Emphasis is on creating and executing a gala banquet along with pre-dinner appetizers. Not available for supplemental. Instruction (3.0).

CUL-2218 Industry Work Placement (1.50 cr.) A capstone course that exposes the students to many aspects of working in a professional kitchen. Focus is on paid industry placement of 480 hours. This course is a prerequisite to starting the other courses associated with year two of the Culinary Careers diploma. This course is graded CR/NCR. Not available for supplemental. Work Experience (1.5). Equivalent to COC-1132, COC-132.

(CYC) CHILD AND YOUTH CARE

CYC-1158 Communications in CYC Practice (3.00 cr.) An exploration of skills required to relate effectively with team members, clients, and others and to develop the first stages of helping relationships. An application of self-awareness, personal growth and attitudinal changes in enhancing interpersonal relationships. One third of this course is delivered in an outdoor educational experience that explores activity as a means to effectively engage in therapeutic communication with clients. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (1.0). Requisite courses: Take CYC-1158L (Required, Concurrent).

CYC-1163 Behaviour Management (3.00 cr.) An introduction to, and application of, techniques of learning theory and behaviour modification in work with children and adolescents. An exploration of the role of behavioural programming in a variety of treatment settings. Not available for supplemental. Instruction (2.0). Equivalent to CYC-163. Requisite courses: Take CYC-1169. (Required, Previous).

CYC-1169 Observation, Reporting & Assessment (3.00 cr.) A foundational introduction to the importance of observing and recording behaviours and significant information in a clear, concise and comprehensive manner according to CYC professional practice. The application of such skills to measurement and assessment techniques relevant to addressing the needs of individuals is emphasized. Not available for supplemental. Instruction (3.0). Equivalent to CYC-169.

CYC-1173 Foundations & Roles of CYC (3.00 cr.) A study of the historical and present day perspective of the social care system, its social policies and legislation including the core values and beliefs that distinguish child and youth care from other disciplines. Examines the role of the child and youth care practitioner in a variety of practice settings. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0). Equivalent to CYC-173.

CYC-1175 Therapeutic Interventions (3.00 cr.) An introduction to child and youth management approaches that are preventative, that manage behavioral and crisis issues and are delivered from a positive frame of reference. An application of intervention strategies that effectively address a variety of treatment issues. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to CYC-175. Requisite courses: Take CYC-1158, CYC-1173. (Required, Previous).

Course Descriptions CYC 1178 - CYC 2285

CYC-1178 CYC Clinical Practice I (3.00 cr.) An application of establishing helping relationships and acting within the role of a professional Child and Youth Care Worker in a work based setting. Focuses on the progressive development of skills in observation, interviewing, assessment, program planning, and execution of planned activities under supervision. Understanding the role of practitioner is supported by pre- and post- seminars, weekly individual meetings and small group seminars. Not available for supplemental. Work Experience (3.0). Equivalent to CYC-178, CYC-176. Requisite courses: Take CYC-1158, CYC-1169, CYC-1173. (Required, Previous). Take CYC-1163, CYC-1175, CYC-1180 and CYC-1194 (Required, Concurrent).

CYC-1180 Counselling Techniques I (3.00 cr.) An introduction to the micro-skills approach and person-centred theory, designed to develop the fundamental and basic counselling skills necessary to function successfully in the helping environment. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0). Equivalent to CYC-180. Requisite courses: Take CYC-1158. (Required, Previous). Take CYC-1178 (Required, Concurrent).

CYC-1194 Activity Leadership (3.00 cr.) A skills-based approach focusing on the leadership of therapeutic activities in the Child and Youth Care profession. Opportunities are provided to design, implement and evaluate effective therapeutic activities while applying developmental, ecological and strength based perspectives. Self-reflection will examine the development of personal leadership and teaching behaviours. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to CYC-194.

CYC-2251 Family Support and Intervention (3.00 cr.) An examination of the practice of family support and intervention as it pertains to child and youth care practice on both a theoretical and experiential level including family dynamics. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to CYC-251. Requisite courses: Take CYC-1180, CYC-1173, HSP-1151. (Required, Previous). Take CYC-2255. (Required, Concurrent).

CYC-2253 Group Process (3.00 cr.) An introduction to the processes and skills necessary to become an effective group member as well as an application of the skills required to be an effective group facilitator in leading a variety of psycho-educational groups for children, youth and families. Focus is on how decision- making, communication, and problem-solving processes impact group dynamics. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Tutorial (1.0). Equivalent to CYC-1193, CYC-193. Requisite courses: Take CYC-1158, CYC-1169. (Required, Previous). Take CYC-2255 and CYC-2253T (Required, Concurrent).

CYC-2255 CYC Clinical Practice II (6.00 cr.) A further application of professional practice in CYC settings utilizing strength-based and ecological perspectives to facilitate the assessment and intervention process. The role of practitioner is developed through active involvement in the practicum experience, pre- and post-seminars, weekly individual meetings and small group seminars. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (6.0). Equivalent to CYC-255, CYC-256. Requisite courses: Take CYC-1178 CYC-1180; (Required, Previous). Take CYC-2251, CYC-2280 and CYC-2253 (Required, Concurrent).

CYC-2260 Mental Health/Substance Abuse in CYC (3.00 cr.) An introduction to, and critical examination of, a variety of mental health and substance abuse issues affecting children, youth and families. Focus is on identification, risk and protective factors and best practices for assessment, intervention and referral processes from a CYC perspective. Not available for supplemental. Instruction (3.0).

CYC-2269 Case Management and Evaluation (3.00 cr.) A study and application of case management and evaluation procedures for the human services. Focus is on the development of short- and long-term treatment plans, intervention strategies, and specific procedures that support a holistic/ecological model of practice. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to CYC-269. Requisite courses: TAKE CYC-2251, CYC-2255, CYC-2280. (Required, Previous). Take CYC-2285 (Required, Concurrent).

CYC-2272 Family Violence (3.00 cr.) A study of family violence including child physical, emotional, and sexual abuse, intimate partner abuse, and institutional abuse. Includes reporting laws, methods for detection of abuse, and therapeutic methods and techniques for working with victims. Not available for supplemental. Instruction (3.0). Equivalent to CYC-272, CYC-172.

CYC-2280 Counselling Techniques II (3.00 cr.) A skills-based approach to interviewing and counselling interventions applicable to the Child and Youth Care profession. Areas of concentration include development of advanced listening skills, use of solution-focused therapeutic techniques from a strength-oriented perspective, and an examination of specific topics related to therapeutic interventions in human services. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0). Equivalent to CYC-280. Requisite courses: TAKE CYC-1180, CYC-1163, CYC-1175, CYC-1178. (Required, Previous). Take CYC-2255 (Required, Concurrent).

CYC-2285 CYC Clinical Practice III (6.00 cr.) Capstone application focusing on the role of the CYC practitioner in the case management process, utilizing therapeutic relationships to ensure planned interventions address the ecological perspective from a strengths-based focus. The role of practitioner is facilitated through active involvement in the practicum experience, pre- and post-seminars, weekly individual meetings and small group seminars. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (6.0). Equivalent to CYC-285, CYC-271. Requisite courses: Take CYC-2251 CYC-2255 CYC-2280; (Required, Previous). Take CYC-2269 (Required, Concurrent).

Course Descriptions DCE 2255 - DCM 2251

(DCE) CONSERVATION ENFOREMENT

DCE-2255 Ethics and Career Development (3.00 cr.) This course will examine ethical decision-making in the Natural Resources field. Many positions require that employees conduct themselves in a professional manner beyond reproach. Several positions, particularly those in resource enforcement, align with a code of ethics and standard of conduct. This course provides an overview of employment skills required by the resource industry and topics include job market research, networking, resume writing and entrepreneurship. Not available for supplemental. Instruction (3.0). Equivalent to DCE-255, CPL-155.

(DCM) DIGITAL COMMUNICATIONS & MEDIA

DCM-1150 Research and Writing for Digital Media (3.00 cr.) An introduction to writing for print, broadcast and online formats. Emphasis is on information gathering and dissemination, including the importance of accuracy and deadlines. Not available for supplemental. Instruction (1.5), Lab (4.5). Requisite courses: Take DCM-1150L (Required, Concurrent).

DCM-1152 Introduction to Communications (3.00 cr.) An exploration of the evolution of storytelling from the printing press to high definition broadcasting. Cultural impacts of the news and entertainment industries, ethical implications history, function, role and the effect of mass communication on our society will be examined. Not available for supplemental. Instruction (3.0). Equivalent to CAP-1152, CAP-152.

DCM-1153 Communication Process (3.00 cr.) A study of dynamic personality types when interviewing subjects in the media. Communication styles vary when people's cultural backgrounds and interpersonal styles differ. Real life scenarios, role-playing, public speaking and announcing will draw on communication theory. Not available for supplemental. Instruction (1.5), Lab (3.0). Requisite courses: Take DCM-1153L (Required, Concurrent).

DCM-1154 Public Relations (3.00 cr.) An introduction to the history, philosophy, ethics and practice of public relations and the beginning skills of public relations application. The public, tools, techniques and media interaction involved in public relations are discussed. Not available for supplemental. Instruction (3.0). Equivalent to CAP-2254, CAP-254.

DCM-1157 Advertising and Marketing for Media (3.00 cr.) An introduction to the philosophy and principles of advertising and marketing. Buyer behavior, market identification and segmentation, market research and collect data in order to create and implement effective advertising campaigns and media buys will be examined. Emphasis is on use of online, print, broadcast and social media to implement campaigns. Not available for supplemental. Instruction (3.0).

DCM-1159 Media Law and Ethics (3.00 cr.) An exploration of laws and ethics related to the media in Canada and discussions of ethical standards in the media. Provincial, federal and international laws, understanding the regulations surrounding work in the media industry, freedom of expression, court systems, defamation, confidentiality, publication bans and copyright will be examined. Not available for supplemental. Instruction (3.0). Equivalent to CAP-1170, CAP-170.

DCM-1163 Broadcast Writing and Producing (3.00 cr.) An application of skills to create news, commercial and production segments for both radio and television. Topics include project management, working in teams, originating story ideas and commercial scripts, recording and editing audio and visual content for broadcast. Methods of interviewing for radio and television, and organizing news for broadcast delivery. Not available for supplemental. Instruction (1.5), Lab (1.5), Tutorial (3.0). Requisite courses: Take DCM-1150, DCM-1165, DCM-1171. (Required, Previous). Take DCM-1163L and DCM-1163T (Required, Concurrent).

DCM-1165 Visual Media (3.00 cr.) Care and use of video and still digital cameras and related software will be explored. Emphasis is placed on developing skills to produce visual images used in the media and includes content and composition, dealing with variable lighting conditions, space and motion, controlling depth of field and image editing. Covers skills and techniques for effective videography and editing concepts for producing engaging videos. Not available for supplemental. Instruction (1.5), Lab (3.0). Equivalent to CAP-1165, CAP-165. Requisite courses: Take DCM-1165L (Required, Concurrent).

DCM-1168 Digital Reporting and Publishing (3.00 cr.) An application of skills for writing and production of online and print based content. Gathering and dissemination of information, including the importance of accuracy and deadlines will be examined as well as the impact of a news story on a wide audience, interviewing, note taking, writing and packaging the story visually. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-1150, DCM-1165, DCM-1170. (Required, Previous).

DCM-1170 Production Software (1.50 cr.) An introduction to the use of computers and software relevant to media, file management and presentation software, graphics software and design skills relevant to the media. Not available for supplemental. Instruction (3.0). Equivalent to CPU-1170, CPU-170.

DCM-1171 Digital Audio (1.50 cr.) Working with digital audio for all media, handheld mobile digital recorders, digital audio mixing and editing tools, and a digital newswire service will be explored. Not available for supplemental. Instruction (3.0). Equivalent to CAP-1171, CAP-171, CAP-125.

DCM-2250 News Reporting & Data Journalism I (3.00 cr.) The value of accurately capturing details and writing timely stories will be examined in this dynamic fast-paced course. Topics include covering deaths, localizing global events, court reporting, business meetings and sports. Analyzing data for use in a story, ethics and how to get what information you need on deadline will be covered. Not available for supplemental. Instruction (4.5). Requisite courses: Take DCM-1163, DCM-1168. (Required, Previous).

DCM-2251 Feature Coverage I (3.00 cr.) Focuses on effectively producing features, profiles, entertainment and life pieces and learning the value of applying social media to their coverage.

Course Descriptions DCM 2252 - DCM 2275

Topics include story meetings, effectively pitching a story to an editor, newsroom hierarchy and how to effectively reach a target demographic. Not available for supplemental. Instruction (4.5). Requisite courses: Take DCM-1163, DCM-1168. (Required, Previous).

DCM-2252 News Production I (6.00 cr.) Focuses on design and presentation of various computer generated products in the media field. Content creation using online, audio, video and publishing techniques will be examined. Major skills include using desktop publishing software, news and feature photography, typography, video and video editing, radio production, web design, podcasts and using content management systems. Appropriately packaging content for use in online, publishing, TV and radio will be examined. Not available for supplemental. Instruction (10.0). Requisite courses: Take DCM-1163, DCM-1168. (Required, Previous).

DCM-2253 On-Air Presentation I (3.00 cr.) An introduction to presentation skills required in all forms of digital media. Focuses on developing best practice habits for public speaking, oral and visual delivery. Topics include announcing and hosting radio, television and online programming, information presentation for daily radio and bi-weekly television newscasts, and interviewing for all mediums. Not available for supplemental. Instruction (3.0). Requisite courses: Take DCM-1153, DCM-1163, DCM-1168. (Required, Previous).

DCM-2254 News Reporting & Data Journalism II (3.00 cr.) Focuses on covering spot news, mock disasters, spot photography, videography and applying data to local news values. Opportunities include creating effective images and interviews from events that do not have the option of follow-up phone calls. Not available for supplemental. Instruction (4.5). Requisite courses: Take DCM-2250. (Required, Previous).

DCM-2255 Feature Coverage II (3.00 cr.) Focusing on long-form coverage of prominent community leaders, entertainment personalities, sports figures, organizations and creating multiple stories about one topic as it progresses. Not available for supplemental. Instruction (4.5). Requisite courses: Take DCM-2251. (Required, Previous).

DCM-2256 News Production II (3.00 cr.) Builds on existing knowledge of content production through online, publishing, TV and radio formats and examines advanced techniques. Packaging content for different audiences using a variety of formats will be explored. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-2252. (Required, Previous).

DCM-2257 On-Air Presentation II (3.00 cr.) Focuses on the presentation skills specifically required for a career in multiple mediums. Topics include development of a personal brand, the pace of oral delivery of scripts, control of vocal tone, inflection and body movements. Opportunities include “live” experience in reporting from the field through daily campus radio, and weekly television, and online presentations. Not available for supplemental. Instruction (3.0). Requisite courses: Take DCM-2253. (Required, Previous).

DCM-2260 Media Entrepreneurship & Freelance (3.00 cr.) An overview of business, marketing and promotion within the media industry and gaining experience through on-campus mediums. Topics include media business issues when running a media company which include accounting, budgeting, marketing, small enterprise funding, grant writing, portfolios and public relations. Focus is on business models for freelancers and small business promotion. Not available for supplemental. Instruction (6.0).

DCM-2270 Media Writing I (3.00 cr.) Focuses on writing and evaluating a variety of script formats including commercials and corporate messages to be presented on campus television, radio, newspaper and their online formats. Opportunities include evaluating and writing proposals for a factual, lifestyles or entertainment project for the medium of their choice. Not available for supplemental. Instruction (3.0). Requisite courses: Take DCM-1163, DCM-1168. (Required, Previous). Take DCM-2272 (Required, Concurrent).

DCM-2271 Media Sales and Promotion (3.00 cr.) Sales, marketing and promotion within the media industry will be examined. Practical tasks include advertising sales, news release writing, press kits and special event planning through campus television, radio, newspaper, magazine and their online formats, cultivating business partnerships, customer service and using social media tools for various tasks. Not available for supplemental. Instruction (3.0).

DCM-2272 Broadcast Programming & Production (3.00 cr.) Focuses on creating original content for TV, radio and online presentations. Methods include performing duties in preproduction, production and postproduction, to create TV and radio programming and use different distribution methods to share this content with an audience. Creating various commercial and promotional content for use on the campus online radio station and preparing music and program schedules for delivery on campus radio will be examined. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-1163. (Required, Previous). Take DCM-2270 (Required, Concurrent).

DCM-2273 Digital Graphic Design (3.00 cr.) Editorial content graphic design of print and online mediums will be explored. Emphasis is on developing skills using desktop publishing software, news and feature photography, typography, logo design and visually packaging content for an audience. Opportunities include practical experience planning, photographing and illustrating content through the campus newspaper, magazine and their online formats. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-1168. (Required, Previous).

DCM-2274 Media Presentation (3.00 cr.) Media presentation skills from announcing, hosting, presenting and interviewing will be examined. Opportunities include best practices for interview and live presentation preparation, as well as communicating effectively with the media as a spokesperson across all mediums. Not available for supplemental. Instruction (3.0). Requisite courses: Take DCM-1153. (Required, Previous).

DCM-2275 Media Writing II (3.00 cr.) A continuation of the development of skills from Media Writing I. With a combination of production and advertising writing, campaign creation and implementation across all platforms, based on client’s and audience’s needs. Commercial and programming scripts will be produced for radio and television in Digital Production. Social media tools and how they can be used in conjunction with advertising campaigns and media production will be examined. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-2270. (Required, Previous). Take DCM-2276 (Required, Concurrent).

Course Descriptions DCM 2276 - ECE 1155

DCM-2276 Campus Media (3.00 cr.) Content creation and packaging for a combination of the campus newspaper, radio and television and their online formats will be examined. Opportunities include producing live content in the field, webcasting, graphic design, sales and promotions. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-2271, DCM-2272, DCM-2273. (Required, Previous). Take DCM-2275 (Required, Concurrent).

DCM-2277 Digital Production (6.00 cr.) Focuses on production of radio, television and publishing. Television topics include team project to produce specialty programming for broadcast and the web while continuing to create commercials and promotions. Radio emphasizes more advanced production skills to create programming and promotional materials. Publishing examines advanced design concepts to be implemented across multiple platforms including content development, magazine advertising, page design, uploading online content and photography while producing a full-sized glossy magazine. Opportunities include portfolio creation and web maintenance. Not available for supplemental. Instruction (6.0). Requisite courses: Take DCM-2270, DCM-2272, DCM-2273. (Required, Previous).

DCM-2280 Practicum (3.00 cr.) The application of acquired media skills and knowledge in an actual industry environment. Students find a practicum placement that supports course learning outcomes. Placements must include guidance of experienced supervisor operating in student's chosen field. Host must provide equipment, site and expertise to offer complete work experience. College facilities and equipment cannot be used in practicums. Work should be equal to duties of entry-level employee. Practicum requires 150 hours of work. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Requisite courses: Take DCM-1150, DCM-1152, DCM-1153, DCM-1154, DCM-1157, DCM-1159, DCM-1163, DCM-1165, DCM-1168, DCM-1170, DCM-1171. (Required, Previous).

DES-1153 Basic Design (3.00 cr.) This course introduces the basic elements and principles of design. Included is an introduction to colour. Students will explore basic principles and concepts that relate to a range of design areas. The emphasis of this course will be on learning through examples, warm-ups, exercises, discussions, critiques and projects. Supplies are not included in the cost of tuition. A supply list will be provided at the first class. Not available for supplemental. Instruction (3.0). Equivalent to DES-153.

DES-1155 Graphic Design (3.00 cr.) An introduction to creating projects that communicate a message using digital design tools. Emphasis is on developing an awareness of the language of design and its fundamental principles. Instruction (4.0). Equivalent to DES-155, CMM-150.

DES-1156 Web Graphics, Layout, & Interface Design (3.00 cr.) A skills-based approach to applying visual communication into website design, interface design, print layout and virtual reality. Exploration of design challenges in regard to mobile environments. Emphasis is on choosing the right workflow for the desired end result. Instruction (6.0). Equivalent to DES-156. Requisite courses: Take DES-1155. (Required, Previous).

(EAP) ENGLISH ACADEMIC PURPOSES

EAP-0096 Academic Writing (6.00 cr.) The writer can write clear, moderately complex texts on familiar concrete and some abstract topics within predictable, practical and relevant contexts of daily social, educational and work-related life experience. Instruction (10.0). Equivalent to EAP-096. Requisite courses: Take ESL-0094; (Required, Previous).

EAP-0097 Academic Communication (3.00 cr.) The listener can understand moderately complex formal and informal communication, including abstract concepts and ideas related to general knowledge, life experience and specialized or work-related situations. The speaker can communicate with confidence in most daily routine social, educational and work situations, and present concrete and some abstract information on an expanded range of familiar topics. Instruction (5.0). Equivalent to EAP-097. Requisite courses: Take ESL-0094; (Required, Previous).

EAP-0098 Academic Reading (3.00 cr.) The reader can understand most moderately complex texts in less predictable but relevant social, educational and work-related situations. Instruction (5.0). Equivalent to EAP-098. Requisite courses: Take ESL-0094; (Required, Previous).

(ECE) EARLY CHILDHOOD EDUCATION

ECE-1150 Observation and Documentation in ECE (1.50 cr.) An exploration of the correlation among direct observation, documentation, supported interpretation, guided reflection and professional practice in early childhood education. Emphasis is placed on the ethics of observation and documentation in early childhood settings. Not available for supplemental. Instruction (1.5).

ECE-1151 Health, Safety and Nutrition (3.00 cr.) This course provides content specifically focused on the wellness of young children and those who care for them in early childhood education programs. The course content focuses on basic principles of health and well-being, nutrition through implementation of the Canada Food Guide, and safety issues pertaining to early childhood. Not available for supplemental. Instruction (3.0). Equivalent to ECE-151, ECE-158.

ECE-1154 Guiding Children's Behavior (3.00 cr.) An exploration on how to effectively guide young children's behaviour using positive child guidance strategies. The importance of the early childhood education professional developing rapport with young children and supporting the development of positive self-esteem is stressed. Reflection on experiences with young children and knowledge of child growth and development help to understand why children behave in the ways they do. Not available for supplemental. Instruction (2.0), Lab (1.0). Equivalent to ECE-154. Requisite courses: Take ECE-1154L (Required, Concurrent).

ECE-1155 Intro to Early Childhood Education (3.00 cr.) This course covers the goals and essential components for successful preschool experiences. The historical, social and psychological influences that have shaped early childhood theory and practice through the years are also examined.

Course Descriptions ECE 1156 - ECE 2256

Students will gain an insight into the role of the early childhood worker and will examine their own personal philosophy for early childhood work, in light of current appropriate child care practices. Not available for supplemental. Instruction (3.0). Equivalent to ECE-155.

ECE-1156 Development Through Play (3.00 cr.) An introduction to play as a natural but integral factor of the child's intellectual, physical, social, emotional, language and creative development. Topics include: how to organize meaningful play experiences for the optimum growth of individual children in a variety of settings, choice of appropriate play materials/ equipment, and the physical arrangements of both indoor and outdoor spaces. Not available for supplemental. Instruction (1.5), Lab (1.5). Equivalent to ECE-156. Requisite courses: Take ECE-1156L (Required, Concurrent).

ECE-1160 Observation and Recording (3.00 cr.) Students develop the skill of observing and recording the behaviours of young children. Students examine the concept of behaviour, the rationale for observation and a variety of observation techniques. The process of recording observations and the sources of error in records will be examined in detail. Students will be required to complete practical assignments in field placement and other ECE settings. Not available for supplemental. Instruction (2.0). Equivalent to ECE-160.

ECE-1162 Creative Experiences I (3.00 cr.) This first-year course is one of three that places emphasis on developmentally appropriate activities for young children. The content of creative experience courses will provide knowledge of the young child's growth and abilities (physically, creatively, intellectually, socially and emotionally). This information will be applied to skills and attitudes when planning, implementing, guiding and evaluating activities offered for individual children and groups. The focus is on the integration of language arts experiences through children's literature and creative arts experiences into an early childhood curriculum. Not available for supplemental. Instruction (1.5), Lab (1.5). Equivalent to ECE-162. Requisite courses: Take ECE-1162L (Required, Concurrent).

ECE-1168 Children's Outdoor Play (3.00 cr.) A critical analysis of social, familial, historical, political, and cultural worldviews of children's right to play. The role of educators in the design and sustainability of outdoor play spaces that use local natural materials is examined. Not available for supplemental. Instruction (3.0).

ECE-1180 Practicum I (1.50 cr.) A 144 hour first level practicum providing the opportunity to link theory to practice. Focus is on developing skills in observing and recording children's behaviour, appropriate interaction skills, and demonstrating personal and professional attitudes and behaviours needed to be a responsive early childhood educator. Not available for supplemental. Work Experience (1.5). Equivalent to ECE-180.

ECE-1181 Practicum II (3.00 cr.) A 240 hour second level practicum focusing on curriculum development through documentation and reflection. Personal and professional attitudes and behaviours needed to be a responsive early childhood educator are reinforced. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Equivalent to ECE-181. Requisite courses: Take ECE-1180 (Required, Previous).

ECE-2250 Pedagogical Documentation (3.00 cr.) Focus on the view of pedagogical documentation as an essential element of emergent curriculum. Emphasis is on the creation of learning stories and documentation panels that make children's, family's, and educator's learning visible. Not available for supplemental. Instruction (3.0).

ECE-2251 Diversity in Early Childhood Education (1.50 cr.) This course will examine the anti-bias curriculum including gender, age, race, culture and class. Effective cross-cultural communication strategies will be explored. Not available for supplemental. Instruction (2.0). Equivalent to ECE-251.

ECE-2252 Child and Family (1.50 cr.) This course increases understanding and awareness of young children and their families. It examines the historical and societal influences on the family as well as the critical issues confronting families. The dual role of the program and caregiver in relation to the family is examined. Not available for supplemental. Instruction (2.0). Equivalent to ECE-252.

ECE-2253 Family and Community (1.50 cr.) This course is a more in-depth study of the needs of families with a focus on building skills for working with young children and their families. It examines the sociological factors that impact family life as well as the importance of family involvement within the program and the value of parent education to enhance and support parents in their role as primary caregivers. Awareness and knowledge of community agencies that support families are also stressed. Not available for supplemental. Instruction (2.0). Equivalent to ECE-253. Requisite courses: TAKE ECE-2252; (Required, Previous).

ECE-2254 Child, Family and Community (3.00 cr.) An analysis of democratic citizenship and society building that occurs between families and early childhood settings. Critical reflections of the diversity of family composition in changing societies are included. Concepts related to parenting, family dynamics, and community engagement are examined through a socio-cultural lens. Not available for supplemental. Instruction (3.0).

ECE-2255 School-Aged Programming (3.00 cr.) Students examine the role of the early childhood professional and the goals and philosophy of school-aged care programs for children ages 6 to 12. Students learn about the school-aged child, their developmental characteristics, interests and capabilities. The current legislation, standards and professional qualifications that support quality school-aged programs is examined. Not available for supplemental. Instruction (3.0). Equivalent to ECE-255. Requisite courses: Take ECE-2264. (Required, Previous).

ECE-2256 Pedagogical Leadership (3.00 cr.) An examination of how pedagogical leadership inspires and informs professional practice. Focus on critical dialogue that embrace a learning through play philosophy and supports leaders in co-constructing emergent curriculum in collaborative relationships with children, families, and communities. Not available for supplemental. Instruction (3.0).

Course Descriptions ECE 2257 - EDD 1150

ECE-2257 Organization and Administration (3.00 cr.) This course covers a variety of types of ECE programs. This information is examined together with legal and professional procedures necessary for the initiation and the operation of a centre. Optimum use of space, equipment, personnel and resources are considered in the creation of centres, which serve the child's developmental needs. Not available for supplemental. Instruction (3.0). Equivalent to ECE-257. Requisite courses: TAKE ECE-2264; (Required, Previous).

ECE-2260 Infant and Toddler Programming (3.00 cr.) This course covers meeting the individual and group needs of infants and toddlers. It reviews developmental needs of young children (birth to 36 months) and examines how to plan and establish an environment suitable to this age group. This includes examining the adult role, routines, scheduling and suitable activities. Not available for supplemental. Instruction (2.0), Lab (1.0). Equivalent to ECE-260. Requisite courses: Take ECE-2260L (Required, Concurrent).

ECE-2262 Creative Experiences II (3.00 cr.) This course is the second of three courses that places emphasis on developmentally appropriate activities for young children. The content of creative experience courses will provide knowledge of the young child's growth and abilities physically, creatively, intellectually, socially and emotionally. This information will be applied to skills and attitudes when planning, implementing, guiding and evaluating activities offered for individual children and groups. The focus will be on the integration of music, gross motor and creative movement experiences into an early childhood curriculum. Not available for supplemental. Instruction (1.0), Lab (2.0). Equivalent to ECE-262. Requisite courses: Take ECE-2262L (Required, Concurrent).

ECE-2263 Creative Experiences III (3.00 cr.) This course is the third of three courses that places emphasis on developmentally appropriate activities for young children. The content of creative experience courses will provide knowledge of the young child's growth and abilities physically, creatively, intellectually, socially, and emotionally. This information will be applied to skills and attitudes when planning, implementing, guiding and evaluating activities offered for individual children and groups. The focus will be on the integration of science and field trips, math and cooking experiences into an early childhood curriculum. Not available for supplemental. Instruction (1.0), Lab (2.0). Equivalent to ECE-263. Requisite courses: Take ECE-2263L (Required, Concurrent).

ECE-2264 Pre-School Programming (3.00 cr.) This course covers the major objectives and current philosophy underlying an individualized, child-centred, play-oriented program. Techniques of program planning and curriculum development appropriate to the needs of the child in areas such as cognitive, social, emotional, physical and creative development are examined. Students are introduced to the legal requirements and the professional procedures necessary for implementing various programs. Optimum use of space, equipment, personnel and resources are considered. Not available for supplemental. Instruction (3.0). Equivalent to ECE-264.

ECE-2266 Team Building (1.50 cr.) This course focuses on the principles of effective teamwork in the workplace and examines group processes. Relationships with adults, particularly co-workers, parents and community personnel are addressed. Not available for supplemental. Instruction (2.0). Equivalent to ECE-266.

ECE-2270 Inclusion of Children With Special Needs (3.00 cr.) This course emphasizes the inclusion of children with special needs. It examines the importance of adult attitudes, play-based assessment and interdisciplinary services. Strategies for adapting learning environments to address the special needs of children with delays while maintaining the integrity of developmentally appropriate practice will be presented. Not available for supplemental. Instruction (3.0). Equivalent to ECE-270.

ECE-2280 Practicum III (3.00 cr.) A 192 hour practicum focusing on curriculum development through pedagogical documentation and reflection, and the socio-cultural perspective of children's holistic development. Emphasis on the skills, knowledge and attitudes necessary for working with children and families. Not available for supplemental. Work Experience (3.0). Equivalent to ECE-280.

ECE-2281 Practicum IV (3.00 cr.) A 200 hour practicum focusing on pedagogical reflection to construct an overarching personal philosophy that underpins relational practice, curriculum development and professional excellence. Pedagogical leadership is explored. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Equivalent to ECE-281. Requisite courses: Take ECE-2262, ECE-2264, ECE-2280. (Required, Previous).

(ECN) ECONOMICS

ECN-1180 Microeconomics (3.00 cr.) The study of the decisions made by individual households, firms, and industries in the production and consumption of goods and services. Includes comprehensive coverage of factors that impact and are impacted by supply and demand. Instruction (4.0). Equivalent to ECN-180, ECN-181.

ECN-2253 Macroeconomics (3.00 cr.) An overview of economic life, considering the total size, shape and functioning of economic experience rather than the workings of individual firms. Includes topics of national and global interest such as inflation, employment, fiscal policy, monetary policy, and international trade. It is recommended that ECN-1180 be completed before ECN-2253. Instruction (5.0). Equivalent to ECN-253.

(EDD) ENGINEERING DESIGN DRAFTING

EDD-1150 Architectural Design I (3.00 cr.) An introduction to architectural and engineering design and drafting through the study of symbols and conventional practices used on residential building plans. The application of the building code, design calculations, spatial relationships, and selection of appropriate structural building materials are examined. Focus is on the preparation of working drawings for a single family residence, including a main floor plan, foundation plan, building section, and elevation views using 3D design software.

Course Descriptions EDD 1160 - EDD 2298

Not available for supplemental. Instruction (6.0). Requisite courses: Take CAD-1160. (Required, Previous). Take ENF-1180. (Required, Concurrent).

EDD-1160 Technical Drawing (1.50 cr.) An introduction to technical drafting skills utilizing manual drafting equipment and standard drafting practices. Focus is on use of equipment, lettering, line work, geometric construction, orthographic projection, dimensioning and pictorial drawing. Not available for supplemental. Instruction (3.0). Equivalent to DRF-1153, DRF-153, DRF-152.

EDD-1170 Mechanical Design I (3.00 cr.) A study of mechanical design and drafting. Focusing on the use of various views terminology and conventions used in preparation of working drawings. The introduction to 3D parametric modeling using 3D software. Not available for supplemental. Instruction (6.0). Requisite courses: Take CAD-1160. (Required, Previous).

EDD-2255 Process Design I (3.00 cr.) An introduction to pressure vessel design. Types of vessels and exchangers and sizing criteria will be introduced for petrochemical applications. Vessels will be designed to ASME Section VIII code requirements. Vessel terminology, weld symbols, process control instrumentation, optimum insulation thicknesses, and drawing standards will be applied to the development of a fabrication drawing using dedicated engineering software. Not available for supplemental. Instruction (5.0). Requisite courses: Take CAD-1160. (Required, Previous). Take ENF-2250. (Required, Concurrent).

EDD-2268 Architectural Design II (3.00 cr.) A study of topics related to the design of commercial building methods, materials and planning calculations. Commercial drawings will be prepared using the Building Code, design computations, and a variety of architectural resource materials. An understanding of commercial building plans is gained through the preparation of drawings using 3D design software. Not available for supplemental. Instruction (5.0). Equivalent to DRF-2268, DRF-268, DRF-250. Requisite courses: Take EDD-1150. (Required, Previous).

EDD-2270 Mechanical Design II (3.00 cr.) A study of mechanical design and drafting. Focusing on the design and selection of various machine components and machine drive systems. The application of design process procedures and design software to produce the deliverables for a given machine design problem. Not available for supplemental. Instruction (6.0). Requisite courses: Take EDD-1170, ENF-1166. (Required, Previous).

EDD-2275 Digital Mapping and Analysis (3.00 cr.) An introduction to mapping including topics such as topographic and thematic mapping, map projection methods, locational reference grids, map symbology and map scale. This also includes the practice of digital file maintenance, database manipulation and the creation of maps using Geographic Information Systems (GIS) technology with an emphasis on applications for engineering design and drafting. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Tutorial (3.0). Requisite courses: Take SUR-1180. (Required, Previous). Take EDD-2275T. (Required, Concurrent).

EDD-2280 Process Design II (3.00 cr.) An introduction to petrochemical processes typical for natural gas processing including dehydration, refrigeration and amine sweetening. The design process from Process Flow Diagrams (PFDs), to Piping and Instrumentation Drawings (P&IDs), to advanced piping design and layout for a facility will be developed. Piping will be designed to ASME B31.3 code requirements. Dedicated engineering software for 3-dimensional modeling will be used, including section and isometric drawings for spool fabrication. Not available for supplemental. Instruction (5.0). Requisite courses: Take EDD-2255. (Required, Previous).

EDD-2285 Environmental Systems (3.00 cr.) An introduction to the fundamental concepts of heat transfer and the application of heating, ventilation, air conditioning, and domestic hot water systems to residential and light commercial buildings. A building will be modeled for heat transfer, and cost-benefit analyses will be conducted to determine optimum performance for a specific climate. The concepts of passive solar gain, indoor air quality, and renewable technologies including solar photovoltaic, solar water heating, and ground-source heat pumping will also be developed. Not available for supplemental. Instruction (4.0). Requisite courses: Take ENF-1180, ENF-2250. (Required, Previous).

EDD-2290 Civil Design and Drafting (3.00 cr.) The application of skills learned in prior courses, particularly CAD, survey and fluid mechanics to a variety of civil design and drafting activities. Typical activities will be similar to those encountered in an engineering office and will use industry standard software applications in the preparation of designs and drawings. Emphasis will be placed on meeting appropriate design guidelines and standards. Not available for supplemental. Instruction (2.0), Tutorial (4.0). Equivalent to DRF-2272, DRF-272, DRF-269. Requisite courses: Take EDD-2275, ENF-2250 (Required, Previous). Take EDD-2290T (Required, Concurrent).

EDD-2295 Architectural Design III (3.00 cr.) The continuation of Architectural Design II, focusing on advanced commercial building design. This includes preparation of commercial drawings such as sections as well as interior and exterior elevations. Designs will involve the use of the Building Code. This also includes an opportunity for students to prepare 3D presentation drawings for their projects using CAD software. Not available for supplemental. Instruction (5.0). Requisite courses: Take EDD-2268. (Required, Previous).

EDD-2298 Work Experience (1.50 cr.) An 80-hour optional field work experience placement providing an opportunity for involvement in engineering disciplines related to Engineering Design and Drafting Technology. An application of program skills and knowledge through exposure to field-specific activities performed by engineering technologists on a day-to-day basis. Individuals are required to participate as part of an engineering team to complete work assignments as specified by the engineering supervisor or their appointee. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (1.5).

Course Descriptions EDU 1153 - EDU 2266

(EDU) EDUCATION

EDU-1153 Foundations of Educational Assistance (3.00 cr.) This course is an introduction to the professional behaviours and attitudes that are required by the Educational Assistant in the school system. Emphasis will be on the government's special education standards in the schools, the coding classification for students with disabilities, the philosophy and practice of inclusion, the legal and ethical issues concerning children with disabilities and the roles and responsibilities of the Educational Assistant in supporting students with disabilities under the guidance of the teacher. Included is an overview of the various developmental disabilities/delays and their characteristics. Not available for supplemental. Instruction (3.0). Equivalent to EDU-153, EDU-151.

EDU-1155 Math Instructional Support (3.00 cr.) This course provides instruction for children who are having challenges in math. The special needs assistant will learn instructional techniques and how to adapt the curriculum to meet the learning needs of the student under the supervision of the classroom teacher. Not available for supplemental. Instruction (3.0). Equivalent to EDU-155.

EDU-1156 Language Arts Instructional Support (3.00 cr.) This course provides instruction for children having challenges in the area of language arts. The special needs assistant will learn instructional techniques and how to adapt the curriculum to meet the learning needs of the students under the supervision of the classroom teacher. Not available for supplemental. Instruction (3.0). Equivalent to EDU-156.

EDU-1162 Self-Regulation in the Classroom (3.00 cr.) The application of self-regulation strategies in the classroom to address attention challenges. Focus will be on differentiated learning, brain-based perspective, current best practice and developmental considerations. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Requisite courses: Take EDU-1163. (Required, Previous).

EDU-1163 Observation and Assessment (3.00 cr.) An introduction to the individualized planning processes used by services that support children and adults with special needs. Emphasis is on specific skills for observing and objectively recording events, baselines and functional assessments and processes, and the process of selecting, writing and evaluating goals and objectives. Not available for supplemental. Instruction (3.0). Equivalent to RSP-1153, RSP-153.

EDU-1165 Applied Behaviour Analysis (3.00 cr.) An introduction to principles of applied behaviour analysis such as reinforcement, natural and logical consequences and generalization. Emphasis is on techniques for increasing, decreasing, or developing new skills as a basis for designing instructional/intervention procedures and the process of positive behaviour supports. Ethical uses of applied behaviour analysis are extensively discussed. Not available for supplemental. Instruction (3.0). Equivalent to RSP-1155, RSP-155.

EDU-2250 Speech and Language Development (3.00 cr.) This course provides an in-depth study of the development of speech, language and communication skills in children. Speech, language and communication disorders that affect children are discussed. Students will learn specific techniques and intervention strategies to support children with special needs in the classroom. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to EDU-250, EDU-157.

EDU-2252 ESL Instructional Support (3.00 cr.) This course will provide theories associated with English as a second language acquisition in children/adolescents. Students will learn techniques for assisting children who are ESL to speak or to listen as well as develop vocabulary/grammatical and phonological development. The role of the Special Needs Educational Assistant in classrooms with children whose first language is not English will be emphasized. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to EDU-252.

EDU-2254 Health Issues in Education (3.00 cr.) This course will provide students with an overview concerning the promotion of health and safety, the prevention of illness, as well as the maintenance and quality care of children with diverse needs in schools. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to HTH-2250, HTH-250.

EDU-2255 Educational Trends (1.50 cr.) This course will cover traditional and non-traditional classroom methods. The techniques and strategies arising from each method will provide the knowledge and flexibility necessary to respond to children with diverse needs using educationally sound practices. In addition, alternative deliveries of education for children and youth will be explored, such as home schooling, virtual learning, adaptive behavior classrooms and other new trends in educational programs with emphasis on the impact of these approaches to the educational assisting field. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0). Equivalent to EDU-255.

EDU-2258 Case Studies of Challenging Behaviour (3.00 cr.) Focus on strength-based, positive intervention analysis and design. Analysis of case studies of children with specific exceptionalities, research and application of appropriate Alberta Education resources. Not available for supplemental. Instruction (3.0). Equivalent to EDU-258.

EDU-2260 Positive Behavioral Supports (3.00 cr.) Learners will increase their skills in behavioural management techniques and practical strategies to manage children with behavioural difficulties which affect their ability to reach their potential within a school environment. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to EDU-260. Requisite courses: Take EDU-2258. (Required, Previous).

EDU-2266 Sensory Impairments (3.00 cr.) This course is a blend of theory and practice, examining educational issues and techniques in supporting children affected by autism, visual and hearing impairments. Each syndrome will be looked at from a sensory perspective.

The use of augmentative communication systems such as sign language and picture exchange systems and amplification systems as well as strategies to work with children affected by sensory impairments will be discussed. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to EDU-266, EDU-159.

(ENF) ENGINEERING FUNDAMENTALS

ENF-1166 Statics and Strength of Materials (3.00 cr.) An introduction to the concepts of statics and strength of materials. Students will apply competencies in mathematics and physics to solve engineering problems. It provides students with the fundamentals required to study structural design courses. Statics, the first part of the course, is primarily concerned with the study of forces acting on structural members which are at rest. Topics include forces and their effects, resultants of coplanar force systems, equilibrium of coplanar force systems, analysis of trusses, centroids, and moments of inertia. The second part of the course primarily deals with analysis and design. The topics to be covered include direct stresses and strains, shear stresses and strains, design properties, thermal stresses, torsion, bending stresses, deflection and combined stresses. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (6.0). Requisite courses: Take MTH-1150. (Required, Previous).

ENF-1170 Engineering Properties I (3.00 cr.) An introduction to the engineering properties of soils and hot mix asphalt as they relate to the civil engineering industry. Topics will include an overview of geological processes, rock and mineral classification system, fundamental engineering concepts and calculations for the selection and design of appropriate soil foundations and asphalt pavement structures. Laboratory projects will be incorporated in the course to supplement the lecture material and to reinforce and supplement theoretical concepts. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (3.0). Requisite courses: Take ENF-1170L. (Required, Concurrent).

ENF-1180 Eng. Materials & Construction Practices (3.00 cr.) An introduction to various engineering materials as well as principles and practices of light construction. A study of the structure, behavior, processing, properties and applications of building materials. Topics will also include accepted building construction practices and application of the Building Code. Laboratory work will be used to reinforce and supplement theoretical concepts. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (4.0). Requisite courses: Take EDD-1150, ENF-1180L. (Required, Concurrent).

ENF-2250 Fluid Mechanics (3.00 cr.) A study of the fundamental concepts in fluid mechanics. Focusing on the properties of fluids, pressure, static fluid forces, energy losses, and fluid flow in pipes and open channels. Not available for supplemental. Instruction (5.0). Equivalent to ENF-1161, ENF-161. Requisite courses: Take MTH-1150. (Required, Previous).

(ENG) ENGLISH

ENG-0009 English Basics (6.00 cr.) The development of the writing and reading skills required for further course work in the Academic Upgrading program and/or workforce literacy. Topics covered are employment related readings, paragraphs, basic grammar, spelling, and punctuation. Students registering in this course should have completed an assessment test. Not available for supplemental. Instruction (6.0).

ENG-0010 English 0010 (6.00 cr.) The development of effective paragraph and essay techniques. Topics covered are sentence structure, grammar, and mechanics. Students registering in this course should have successfully completed ENG-0009 or equivalent. Not available for supplemental. Instruction (6.0).

ENG-0022 English 0022 (6.00 cr.) A focus on the skills required to write effective essays. Topics covered include writing correct sentences, generating interesting and effective ideas and support, and organizing content from several sources into a variety of essay types, including a research essay. Students registering in this course should have successfully completed ENG-0010 or equivalent, or have been placed at this level through an assessment test. Not available for supplemental. Instruction (6.0).

ENG-0030 English 0030 (6.00 cr.) An exploration into developing an appreciation for literature and to acquire the skills of critical analysis and synthesis of ideas. Topics covered include the elements of fiction and non-fiction, poetic techniques, and conventions of drama. Students will read a variety of literature and both discuss and write short essays describing their responses, analyzing the work, or arguing a position related to an author's ideas. Students registering in this course should have successfully completed ENG-0032 or equivalent, or have been placed at this level through an assessment test. Not available for supplemental. Instruction (6.0).

ENG-0032 English 0032 (6.00 cr.) A preparation for the writing requirements for entrance to many post-secondary programs. Topics covered are revising and editing ideas in a variety of academic and practical writing tasks, including a major research paper, sentence structure, grammar, and punctuation. Students registering in this course should have successfully completed ENG-0022 or equivalent. Not available for supplemental. Instruction (6.0).

ENG-0063 English Basics for Work and Academics (5.00 cr.) The development of the writing and reading skills required for further course work in the College and University Preparation program and/or workforce literacy. Topics covered are employment related readings, paragraphs, basic grammar, spelling, and punctuation. Students registering in this course should have completed an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to ENG-063.

ENG-0070 English 0070 (5.00 cr.) The development of effective paragraph and essay techniques. Topics covered are sentence structure, grammar, and mechanics. Students registering in this course should have successfully completed ENG-0063 or equivalent. Not available for supplemental. Instruction (5.0). Equivalent to ENG-070.

Course Descriptions ENG 0080 - ENG 1165

ENG-0080 English 0080 (5.00 cr.)
A focus on the skills required to write effective essays. Topics covered include writing correct sentences, generating interesting and effective ideas and support, and organizing content from several sources into a variety of essay types, including a research essay. Students registering in this course should have successfully completed ENG-0070 or equivalent, or have been placed at this level through an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to ENG-080.

ENG-0085 English 0085 (5.00 cr.)
An introduction to literature with activities growing out of the literary selections studied. Topics covered include poetry, fiction and drama. Students registering in this course should have successfully completed ENG-0070 or equivalent, or have been placed at this level through an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to ENG-085.

ENG-0090 English 0090 (5.00 cr.)
A preparation for the writing requirements for entrance to many post-secondary programs. Topics covered are revising and editing ideas in a variety of academic and practical writing tasks, including a major research paper, sentence structure, grammar, and punctuation. Students registering in this course should have successfully completed ENG-0080 or equivalent. Not available for supplemental. Instruction (5.0). Equivalent to ENG-090.

ENG-0095 English 0095 (5.00 cr.)
An exploration into developing an appreciation for literature and to acquire the skills of critical analysis and synthesis of ideas. Topics covered include the elements of fiction and non-fiction, poetic techniques, and conventions of drama. Students will read a variety of literature and both discuss and write short essays describing their responses, analyzing the work, or arguing a position related to an author's ideas. Students registering in this course should have successfully completed ENG-0090, RDG-0096, or equivalent, or have been placed at this level through an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to ENG-095.

ENG-1133 English Fundamentals (3.00 cr.) An introduction to writing fundamentals focused on extensive discussion, practice and testing on spelling, punctuation, sentence structure and grammar, including parts of speech, sentence types and patterns, verbals, modifiers, parallelism, and other topics. Students must master these fundamentals of writing, Canadian spelling and word usage in order to succeed in the administrative office professional field. Not available for supplemental. Instruction (3.0). Equivalent to ENG-133.

ENG-1142 English for Allied Health (1.50 cr.) This course covers general writing skills required for a career in Allied Health Services. Students will develop the ability to write memos, business letters, short reports, summaries, resumes and cover letters. They will review effective interview skills and be introduced to basic library research and online research skills. Not available for supplemental. Instruction (3.0). Equivalent to ENG-142.

ENG-1146 Technical Report Writing, CVE Officers (3.00 cr.)
This course will focus on the essential technical writing skills that specifically relate to the duties of Enforcement Officers. An emphasis will be placed on report writing, data collection, communication memos and the appropriate use of grammar including syntax and semantics associated with properly written documents. Instruction (3.0). Equivalent to ENG-146.

ENG-1150 Composition (3.00 cr.)
This first-year composition course provides students with a solid grounding in the concepts and strategies of academic writing. As they read and analyze texts from a range of disciplines, students will learn to write discourse that reflects the expectations of their specific fields of study. The course will focus on processes that help students develop their thinking with evidence and present their ideas in a clear prose style. Not available for supplemental. Instruction (3.0). Equivalent to ENG-150.

ENG-1154 Writing for Technologists (3.00 cr.) Students will develop communication skills necessary for writing various types of documents encountered in industry. This includes correspondence such as e-mail, memos and letters. Students will also develop analytical and research skills necessary for writing summaries, informal reports such as progress and incident reports, and formal research reports. Resumes and cover letters will also be covered. Not available for supplemental. Instruction (3.0). Equivalent to ENG-154, ENG-143.

ENG-1155 Scientific and Technical Writing (3.00 cr.) A skills-based approach to technical writing in the environmental sciences field. Emphasis on developing research skills, writing research and technical reports using appropriate style guides, and preparing personal and professional communications. Not available for supplemental. Instruction (3.0). Equivalent to ENG-155. Requisite courses: Take BIO-1172 (Required, Concurrent).

ENG-1156 Business Writing (3.00 cr.)
An introduction to the technical skills required for effective business writing. Assignments will cover topics from basic business letters to informal and short business reports. Not available for supplemental. Instruction (3.0). Equivalent to ENG-156.

ENG-1165 Introduction to Creative Writing (3.00 cr.) This course is an elective for students or would-be-writers in the greater community who wish to develop their creative potential beyond the confines of traditional non-fiction genres such as the essay and freelance article. The focus is on the genres of poetry, fiction, and drama/creative non-fiction. Class time is divided between lecture/discussion and workshop analysis of student works. Students will be expected to complete set assignments within each of the three chosen genres and will be encouraged to attend local readings sponsored by the Canada Council, where they will have the opportunity to meet and discuss the work of professional creative writers. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to ENG-165, HUM-152.

Course Descriptions ENG 1168 - ENG 2285

ENG-1168 Business Communication (3.00 cr.) A skills based approach to various forms of written, verbal and electronic business communication. Emphasis is on developing a strong understanding of your purpose and audience, determining the most effective means, and preparing highly effective communication to achieve that purpose. Not available for supplemental. Instruction (4.0).

ENG-1175 Writing in Public Safety Industry (3.00 cr.) An introduction to writing clearly and concisely, while applying public safety standards. Emphasis on mastery of grammar, punctuation and word usage. Handwritten documents, recording descriptions of events for public safety reports and APA standards are also addressed. Not available for supplemental. Instruction (3.0). Equivalent to ENG-175.

ENG-1176 English Composition II (3.00 cr.) This course emphasizes the need for effective written communication in the law enforcement field. Clear, concise and accurate writing is stressed, including mastery of basic grammar. The course provides thorough review, practice, and feedback on writing skills. It covers general writing skills necessary for careers in the Criminal Justice system. Specifically, the content is a reinforcement of grammar and spelling skills, as a continual preparation for police applicant exams and essay writing skills. Some assignments closely follow current law enforcement agencies' English testing procedures. Other written assignments reflect business communication skills required by practitioners in the law enforcement field. The course introduces library research techniques, enabling students to access and work with the professional literature in the Criminal Justice field. Business letters and application forms applicable for law enforcement positions comprise the remainder of the course content. Not available for supplemental. Instruction (3.0). Equivalent to ENG-176. Requisite courses: TAKE ENG-1175; (Required, Previous).

ENG-1180 Survey of Canadian Literature (3.00 cr.) This course introduces students to the Canadian literary tradition through a sampling of major authors and their works in the three main literary genres of poetry, fiction and drama. Some early works will be considered; however, emphasis will be on the significant works of the twentieth and twenty-first centuries. Works are chosen primarily from English-Canadian authors. Works and authors will be discussed in the context of major trends in Canadian literature, such as the development of Modern and Post-Modern styles of writing. In addition, some major themes and concerns predominant in Canadian literature will be considered. Students will read assigned poems, short stories, novels and plays. In addition, they will be required to seek out and read considerable critical commentary and other resource materials. Students will write tests on each course unit, as well as essays of literary analysis and interpretation. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to ENG-180.

ENG-1185 Writing for Children and Young Adults (3.00 cr.) This writing course may appeal to any would-be-writer in the greater community who wishes to take a three-credit course in creative writing for children and young adults. The focus is on writing traditional literature (folktales, myths, fables, legends and hero tales, folk epics), alphabet/counting books, wordless books, picture books, light verse, juvenile and young adult fiction and non-fiction. In order to be successful in this course, students should have completed Grade 12 English or equivalent. Not available for supplemental. Instruction (3.0). Equivalent to ENG-185.

ENG-1190 Introduction to Language and Literature (3.00 cr.) This course introduces students to English studies at the post-secondary level. The course focuses on exploring language in written texts, particularly short prose fiction and non-fiction, as well as poetry. Students will increase their awareness of different uses of language and rhetorical strategies as they respond to and interpret literature, analyse readings, and develop their own essays, including an academic research paper. Not available for supplemental. Instruction (3.0). Equivalent to ENG-190.

ENG-2260 Introduction to Dramatic Literature (3.00 cr.) This course is an introduction to dramatic literature and its development in the European tradition. Starting with Ancient Greece and moving forward to the present day, this course surveys the theatre of the Ancient Classics through to the movements of the modern and postmodern stage. Plays are read both as literary works that establish meaning independent of production and as works meant for theatrical production. In consideration of the latter, the history of each play's production is examined, along with the social contexts in which each play first appeared. Consideration is also given to how each play fits into the major genres of drama and how each uses or misuses the traditional elements of drama. Film versions and live productions of various plays supplement the student's understanding and experience of the plays discussed in class. Not available for supplemental. Instruction (3.0). Equivalent to ENG-260.

ENG-2265 Native American Literature (3.00 cr.) Survey of North American Native literature will examine several genres that can include traditional stories, fiction, poetry, drama, history, autobiography, essays, and speeches. Addresses concepts, approaches, and debates that inform the production and study of Aboriginal literatures. Starts with exploring the oral tradition as a basis to storytelling. Analyzes the roles stories have always played in shaping and reflecting Aboriginal identities, communities, and histories. Not available for supplemental. Instruction (3.0). Requisite courses: Take ENG-1150 or ENG-1190. (Required, Previous).

ENG-2285 Children's Literature (3.00 cr.) This course introduces the student to the historical development and evolution of children's literature, examining both fictional genres such as folklore, fantasy and realistic works, poetic genres including nursery rhymes, nonsense verse, traditional rhyme and free verse. Classical and contemporary works such as picture books, fairy tales and adventure books will be included in the selection of texts for the course. Themes of self and society, multiculturalism, alienation and family will be examined in both a national and international context. The stages of child development as they relate to children's literary genres will also be explored. Not available for supplemental. Instruction (3.0). Equivalent to ENG-285. Requisite courses: Take ENG-1150, ENG-1180, or ENG-1190 (Required, Previous).

Course Descriptions ENG 2290 - ENV 4452

ENG-2290 Writing for the Screen (3.00 cr.) Everyone has a story to tell, but not everyone has the requisite skills of a storyteller. Before you can tell your story effectively, you need to learn how others have told their stories. ENG290: Telling Stories I is dedicated to exploring the theory of narrative and its practice in select novels, short stories and films. The narratives studied are organized around a particular theme such as identity, progress, and ritual. The course examines how the theory of narrative is in conversation with the practice of narrative encountered in the theme-organized sample of literature and film and encourages students to locate their own creative practices in this conversation. The course culminates with each student proposing an original screenplay arising out of their discoveries of narrative and its evolution. This 3-credit course is complemented by a second 3-credit course, CMM295: Telling Stories II, where the student's original screenplay is produced in the form of a four-minute short film. Not available for supplemental. Instruction (3.0). Equivalent to ENG-290. Requisite courses: Take any one of ENG-1150, ENG-1190, HUM-1190, CAP-1161, or WRI-1150. (Required, Previous).

(ENV) ENVIRONMENTAL SCIENCES

ENV-2265 Parks and Recreation Operations (3.00 cr.) An introduction to field management, operations and maintenance procedures common to provincial and federal park systems. Emphasis is placed on operational prescriptions and related strategies for ensuring the integrity of the land base, visitor facilities and services, and public safety. A field trip is a required component of this course. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to ENV-265. Requisite courses: Take ENV-2265L (Required, Concurrent).

ENV-2280 Contaminant Management (3.00 cr.) An introduction to the fundamentals of managing a variety of contaminated sites in relation to human health and safety and regulatory obligations. Emphasis is on causes of contamination, identification of contaminants, site assessment techniques, and management options. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to ENV-280. Requisite courses: Take ENV-2280L (Required, Concurrent).

ENV-2290 Site Reclamation (3.00 cr.) A study of the ecological processes and regulatory procedures involved with industrial development, disturbance, conservation, and reclamation of ecological systems. Performance measurements, monitoring, and reporting techniques subject to regulatory requirements will be investigated. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to ENV-290. Requisite courses: Take RRM-2253, RRM-2256 (Required, Previous). Take ENV-2290L (Required, Concurrent).

ENV-3355 Environmental Quality (3.00 cr.) This course will provide a global environmental perspective on topics affecting environmental health. It will focus on biological impacts on soil, water and air. Topics covered will include pollution, air quality, global environment change, bio-indicators, global forest decline, carbon sequestration, industry impacts, and alternate energy. The objective is to give students a global perspective on the environment, changes that have occured and solutions to these changes. Instruction (3.0). Equivalent to ENV-355.

ENV-3372 Environmental Policy (3.00 cr.) The formation, development and application of environmental policy will be the focus of this course. Linkages between the scientific foundation, current legislation and laws, and standards that exist, that lead to preservation and protection of the environment and natural resources will be investigated. Not available for supplemental. Instruction (3.0).

ENV-3381 Environmental Water Quality (3.00 cr.) An examination of physical, chemical and biological aspects of evaluating water for a variety of end purposes. Topics include the introduction and practice of various analysis techniques. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-2281, RRM-281. Requisite courses: Take ENV-3381L. (Required, Concurrent).

ENV-3383 Environmental Physics (3.00 cr.) A theoretical, laboratory, and field techniques approach to the study of soil physics for land resource management, soil remediation, agriculture, and forestry. Topics include soil physical properties that determine retention and movement of liquids in soils, soil temperature, soil aeration, soil strength, soil compaction and consolidation. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take ENV-3383L. (Required, Concurrent).

ENV-3397 Environmental Assessment and Auditing (3.00 cr.) Introduces the basic principles of provincial and federal environmental impact assessments (EIA) in Canada. Processes, standardized methods and techniques used to predict, evaluate and mitigate potential environmental effects are emphasized. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to ENV-2297, ENV-297. Requisite courses: Take ENV-3397L. (Required, Concurrent).

ENV-4450 Senior Project I (3.00 cr.) This course will be a capstone project that incorporates the skills, knowledge and techniques obtained in previous courses into an original research project. Students are encouraged to seek opportunities with industry partners and attempt to answer real world problems. This course will focus on project planning and methodology development and will lead to the ENV-4451 Senior Project II. Not available for supplemental. Instruction (3.0).

ENV-4451 Senior Project II (3.00 cr.) This course will be a capstone project that incorporates the skills, knowledge and techniques obtained in previous courses into an original research project. Students are encouraged to seek opportunities with industry partners and attempt to answer real world problems. This course will focus on data collection, analysis and presentation and will build on ENV-4450 Senior Project I. Not available for supplemental. Instruction (3.0).

ENV-4452 Contaminated Site Management (3.00 cr.) Legal and science-based considerations applied to effective management of contaminated sites. Best practice applications of physical, chemical, and biological methods to mitigate and remediate contaminated sites. Comprehensive methods for remediation of organic and inorganic pollutants as well as physicochemical impacts are included with the objective of achieving regulatory compliance. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take ENV-4452L (Required, Concurrent).

Course Descriptions ENV 4453 - ESL 0065

ENV-4453 Stream Reclamation and Remediation (3.00 cr.) This course applies hydrology, streamflow mechanics and physical fish habitat enhancement methods to the reconstruction of damaged stream channels and the restoration of their physical and ecological integrity. A major component of the course requires students to design an integrated rehabilitation plan from field and map surveys, and hydrological data collection. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take ENV-4453L (Required, Concurrent).

(ESL) ENGLISH AS A SECOND LANGUAGE

ESL-0029 ESL - Study and Work Success II (3.00 cr.) This course is offered to ESL students 5 hours per week and runs concurrently with the ESL Credit program. Students will learn study skills which will assist them in being successful students. They will also learn how to find and retain jobs in the Canadian workplace. This course offers more ESL studies at this level over a longer timeframe. The course is compulsory for funded students. Instruction (5.0). Equivalent to ESL-029.

ESL-0035 ESL Grammar Level 1 (3.00 cr.) Grammar Level 1 is a beginning course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0036 ESL Reading Level 1 (3.00 cr.) Focus is on learning to understand texts through pre-reading, vocabulary development, reading and post-reading activities. The skills of skimming, scanning, and guessing new vocabulary through understanding the context, finding the topic and main idea, and making inferences are developed. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0037 ESL Writing Level 1 (3.00 cr.) Focus is on writing simple sentences and paragraphs related to a sequence of events, describing a picture or person and using appropriate conventions in salutations and closings in personal letters. Rules for basic writing mechanics are introduced. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0038 ESL Communication Level 1 (3.00 cr.) Topics of interest and interactive exercises are used to develop speaking and listening skills in many different contexts. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0045 ESL Grammar Level 2 (3.00 cr.) Grammar Level 2 is a high-beginning course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0046 ESL Reading Level 2 (3.00 cr.) Skills-based materials are used to develop and expand on reading skills. Authentic and interest-related texts as well as graded readers (novelettes) reinforce increased reading fluency. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0047 ESL Writing Level 2 (3.00 cr.) Rules for correct usage of basic writing mechanics are used to produce correctly formatted personal and formal letters, notes, email and phone messages. More detailed paragraphs related to a sequence of events or descriptions of a person or picture are produced. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0048 ESL Communication Level 2 (3.00 cr.) Focus is on vocabulary related to everyday topics in conversation and discussion format, practicing public speaking skills, both prepared and impromptu, listening to conversations presented in different accents and answering comprehension questions. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0055 ESL Grammar Level 3 (3.00 cr.) Grammar Level 3 is a low-intermediate course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0056 ESL Reading Level 3 (3.00 cr.) The reader can understand and retrieve information from short, simple texts related to familiar, routine, everyday topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0057 ESL Writing Level 3 (3.00 cr.) The writer can write simple sentences about familiar information related to personal experience and everyday situations. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0058 ESL Communication Level 3 (3.00 cr.) Skills developed include how to open, close and respond to casual small talk, carry on basic phone conversations, give and understand simple instructions, explain everyday activities, express preferences, satisfaction or dissatisfaction, use idiomatic expressions and present a speech or PowerPoint presentation. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0).

ESL-0065 ESL Grammar Level 4 (3.00 cr.) Grammar Level 4 is an intermediate course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

Course Descriptions ESL 0066 - ETS 1151

ESL-0066 ESL Reading Level 4 (3.00 cr.) The reader can understand and retrieve information from short, simple texts related to familiar, routine, everyday topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0067 ESL Writing Level 4 (3.00 cr.) The writer can write short, simple texts about personal experience and familiar topics or situations related to daily life and experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0068 ESL Communication Level 4 (3.00 cr.) The listener can understand simple formal and informal communication on topics of personal relevance. The speaker can communicate information about familiar, routine, everyday topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0075 ESL Grammar Level 5 (3.00 cr.) Grammar Level 5 is a high-intermediate course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0076 ESL Reading Level 5 (3.00 cr.) The reader can understand and retrieve information from simple to moderately complex texts in predictable, practical and relevant social, educational and work-related situations. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0077 ESL Writing Level 5 (3.00 cr.) The writer can write short, simple to moderately complex descriptions, narrations, and communications about familiar, concrete topics related to daily life and experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0078 ESL Communication Level 5 (3.00 cr.) The listener can understand and retrieve information from moderately complex, concrete formal and informal communication. The speaker can communicate in short, routine social situations, and present concrete information about needs and familiar topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0085 ESL Grammar Level 6 (3.00 cr.) Grammar Level 6 is a low-advanced course introducing various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0086 ESL Reading Level 6 (3.00 cr.) The reader can understand and retrieve information from simple to moderately complex texts in predictable, practical and relevant social, educational and work-related situations. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0087 ESL Writing Level 6 (3.00 cr.) The writer can write short, moderately complex descriptions, narrations and communications about familiar, concrete topics relevant to personal interests and experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0088 ESL Communication Level 6 (3.00 cr.) The listener can understand moderately complex formal and informal communication, including some abstract concepts and ideas related to life experience. The speaker can communicate with confidence in routine social situations, and present concrete information in detail about familiar topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment. . Instruction (5.0).

ESL-0095 ESL Grammar Level 7 (3.00 cr.) Grammar Level 7 is an advanced course introducing the various grammatical structures; exploring when, where, and why various grammar structures are appropriate to specific situations; using the structures in statement and questions forms; and applying knowledge of grammar to actual usage in familiar, routine, everyday topics in reading, writing, and communication tasks. Level will be determined by a placement exam or successful completion of previous levels. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0096 ESL Reading Level 7 (3.00 cr.) The reader can understand an expanding range of moderately complex texts in less predictable but relevant social, educational and work-related situations. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0097 ESL Writing Level 7 (3.00 cr.) The writer can write clear, moderately complex texts on familiar concrete topics within predictable, practical and relevant contexts of daily social, educational and work-related life experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

ESL-0098 ESL Communication Level 7 (3.00 cr.) The listener can understand most moderately complex formal and informal communication, including some abstract concepts and ideas related to general knowledge and life experience. The speaker can communicate with some confidence in many daily routine social, educational, and work situations, and present concrete and some abstract information on an expanding range of familiar topics. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0).

(ETS) TECHNOLOGY STUDIES

ETS-1151 Introduction to Technology Studies (3.00 cr.) This course covers the impact of technology on society, environmental issues, sustainable development, workplace safety, historical perspective and future trends. Instruction (4.0). Equivalent to ETS-151.

Course Descriptions FAD 1150 - FSP 1164

(FAD) FIRST AID

FAD-1150 Safety Oriented First Aid and CPR (1.50 cr.) This course provides comprehensive training in airway management including artificial respiration and treatment for choking. Control of bleeding for adults, children and infants is covered as well as treatment and prevention of shock, immobilization of broken bones, recognition and treatment of heart attack and stroke, infant-child and adult CPR, and an introduction to AED's (Automated External Defibrillator). National Standard First Aid Certification (valid for three years) is recognized by Alberta Occupational Health and Safety and is awarded upon successful completion of the course. Instruction (2.0). Equivalent to FAD-150.

(FSP) FASHION DESIGN AND SUSTAINABLE PRODUCTION

FSP-1150 Fashion Illustration (3.00 cr.) An introduction to drawing applications for basic concepts of apparel design and layout through research and projects; projects demonstrate colour theory and the elements and principles of design to accurately depict garment construction and textile rendition. An exploration of various types of fashion drawing including illustration and computerized technical drawing on industry standard fashion figures, utilizing drawing as an effective communication tool. Not available for supplemental. Instruction (3.0). Equivalent to FDM-2201, FDM-201.

FSP-1151 Technical Fashion Drawing (1.50 cr.) An introduction to the creation of technical drawings, flats, using Adobe illustrator software. Accurate communication of garment construction details, colouring and filling in of flats, and the creation of a flats library are explored. Manipulation of software, utilization of stitch libraries assist in gaining efficiency and speed in technical drawing. Technical writing is explored. Not available for supplemental. Instruction (3.0).

FSP-1152 Market Analysis for Fashion Design (3.00 cr.) An introduction to marketing theories, target market research, consumer research, and niche markets as pertaining specifically to the apparel industry. Strategies to solve design problems are explored through research, storyboard production, original designs for specific target markets, and portfolios. An interconnection of marketing to the design process and discussions of design challenges to satisfy market needs are explored. Not available for supplemental. Instruction (3.0).

FSP-1153 Apparel Industry (1.50 cr.) An overview of the organization, sectors, and categories of the apparel industry within Canadian and global apparel industries. Evolving consumer and environmental factors impact on the fashion industry is explored through trend evolution, and research of Canadian fashion designers, international fashion designers, apparel companies and organizations. A survey of the wide variety of careers available within each sector of the industry is developed. Not available for supplemental. Instruction (3.0).

FSP-1155 Global Textile Applications (1.50 cr.) An introduction to the world of fibres and fabric with an overview of the interrelation of the global textile complex, including fibre production through to spinning, weaving, finishing, design, and manufacturing. Includes a study of natural, synthetic, and regenerated fibres and fabric structure. The historic, social, economic, and environmental impact of textiles is discussed; as are textile aspects of serviceability. Not available for supplemental. Instruction (3.0). Equivalent to FDM-1155, FDM-155.

FSP-1160 Style Evolution (3.00 cr.) A historical survey of the development of clothing within Western civilization from antiquity to present. An understanding of the past is developed to more fully interpret today's styles. An overview of architecture, interior design, industrial design, furniture, art, and politics pertaining to and influencing clothing development is explored. Research of specified topics and creation of a file of reference material is developed. Not available for supplemental. Instruction (3.0).

FSP-1161 Computer Applications Apparel Industry (1.50 cr.) Advanced techniques in Adobe Illustrator developed, building upon skills learned in Technical Fashion Drawing and Fashion Illustration. Also, computer software used widely in the apparel industry including Microsoft Office programs and the Adobe Suite are introduced. Concept boards, computer generated drawings, flats, colourways, design and spec sheets, costing sheets and webpages are developed. Not available for supplemental. Instruction (3.0). Equivalent to PAT-2267, PAT-267. Requisite courses: Take FSP-1151. (Required, Previous).

FSP-1162 Sample Room Production (3.00 cr.) Intermediate level of industrial sewing and pattern drafting involved in the development of garments used for samples in the apparel industry. Building upon pattern drafting block manipulation and garment construction techniques for pants, tops, and dresses; production of samples. Specification sheets and measurements for industry production methods are introduced. A variety of assessments included to develop a critical eye for precision and quality. Not available for supplemental. Instruction (6.0). Requisite courses: Take FSP-1170. (Required, Previous).

FSP-1163 Trend Analysis and Product Development (3.00 cr.) An intermediate level to build upon target market knowledge with analysis of trends; an overview of trend forecasting sources and strategies are explored and built upon. Interpretation of trends for various target markets, choosing suitable trends for niche markets, and successful design of appropriate apparel for the industry are discussed. Sketchbooks, journaling, presentation techniques, research, and design boards are developed. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1152. (Required, Previous).

FSP-1164 Product Management (3.00 cr.) The study of merchandising and sales techniques from wholesale through to retail. Discussions connect product line development to sales and merchandising; the importance of integrating merchandising and design to drive sales; ordering, product buying, and vendor negotiations on a wholesale level are included. Retail work experience is explored, researched, and analyzed. Not available for supplemental. Instruction (3.0).

Course Descriptions FSP 1170 - FSP 2262

FSP-1170 Intro to Industrial Sewing and Drafting (6.00 cr.) An introduction to industrial sewing and drafting equipment and industry standard techniques. Consideration for relationship between efficiency and cost. Mass production sewing and flat pattern drafting techniques explored to enable efficient accurate work on a variety of samples. Half-scale industry patterns are drafted through manipulation of blocks creating various styles. Patterns are analyzed, fit, and adjusted through muslins. Explore design, drafting and construction through an industry standard skirt; analyze quality and construction of ready-to-wear garments. Not available for supplemental. Instruction (6.0).

FSP-2250 Sustainable Fashion (3.00 cr.) Discussion series concerning interconnected relationship between people, profit and processes in the apparel industry and impact these areas have socially, economically and environmentally. An exploration of theories on sustainable business practices; opportunities for research of innovative Canadian and international companies in the apparel industry. Further research and analyzing of political and economic issues surrounding sustainability is introduced. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1153. (Required, Previous).

FSP-2251 Computer Pattern Drafting (1.50 cr.) Introduction to computerized pattern drafting and pattern drafting system used to develop block patterns and alter stock patterns. Advanced applications and customized techniques in computerized pattern drafting explored. Emphasis on use for garment and sewn product manufacturers. Intermediate exploration of pattern manipulation, pattern grading, specifications, marker making to industry standards. Computer-generated patterns created out of student designs. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1151, FSP-1162. (Required, Previous).

FSP-2252 Production Techniques (3.00 cr.) Advanced level of sewing and design for the apparel industry. Development of industry standard efficiency techniques for cost effective production. Construction of a variety of samples in conjunction with expanded skills to work with specialty fabrics, both natural and synthetic. Development of techniques for the construction of industry standard suits and jackets established. Students design and construct a suit or coat. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1162. (Required, Previous).

FSP-2253 Pattern Manipulation and Draping (3.00 cr.) A skills based exploration of advanced pattern drafting techniques with emphasis on accuracy and speed in drafting. Advanced draping techniques focus on specialty fabrics requirements. Jackets, coats, and suits drafted according to course specifications. Theory and application of grading patterns to multiple sizes is included. Development of a half-scale reference book for grading pants, skirts, dresses, tops, and jackets. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1162. (Required, Previous).

FSP-2254 Logistics and Sourcing (1.50 cr.) An overview of apparel sourcing and logistic methods and issues. Globalization of the apparel industry is researched. Areas of emphasis include sourcing raw materials, labour costs, finished goods, movement and ordering of goods; domestic and international. Analyze and apply to practical assignments theory gained on International Trade agreements, trade zones, complexities, and global sourcing. Not available for supplemental. Instruction (3.0).

FSP-2255 Manufacturing and Production (1.50 cr.) An overview of production methods used in the apparel industry. Strong emphasis is placed on developing organizational and managerial skills needed to work within an organization. Other areas of study include factory layout, floor management, timed production, and quality control, as well as personnel management. Case studies, technical packages, social and labour issues within factories are discussed. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1170. (Required, Previous).

FSP-2256 Textile Design and Product Knowledge (1.50 cr.) Exploration of dye and print applications and aesthetic and functional finishes for textiles. Various textiles, sustainable fabrics and practices, care and labeling according to the Textile Labeling Act, the impact of the textile industry on the environment, the economy and people are discussed. An overview of textile traditions from different cultures is researched. Students produce designed and created textile samples relating to aspects of serviceability. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1155. (Required, Previous).

FSP-2260 Apparel Industry Independent Research (3.00 cr.) A research-based capstone course that involves independent research in the fashion industry; topics are in conjunction with student personal career goals. Research aligns with Fashion Internship to prepare effectively for the fast paced apparel industry. An emphasis on critical self-analysis, strong time management skills, research methodology, and personal growth. Advanced portfolio development techniques combined with technology; online presence explored. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1152. (Required, Previous).

FSP-2261 Line Development and Production (6.00 cr.) A skills based capstone course that culminates in original student designed, drafted, sewn, and professionally finished sample lines for chosen target markets. Knowledge from previous courses are integrated in market research, development of marketing material, specification packages, costing sheets, and individual line production schedules. Garments are fitted on models; sample lines are critiqued and showcased in a fashion show. Not available for supplemental. Instruction (6.0). Requisite courses: Take FSP-1163, FSP-2251, FSP-2252, FSP-2256. (Required, Previous).

FSP-2262 Fashion Promotion and Event Planning (3.00 cr.) Overview of the fashion industry, public relations, promotion, marketing and strategies of implementation. Focus on analyzing event planning, production of live fashion-based event, compilation of marketing materials in conjunction with Line Development and Production.

Written and oral skills are developed; networking is emphasized. Assessment includes evaluation of team performance and roles and relationships within companies. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-1153. (Required, Previous).

FSP-2263 Applied Apparel Production (3.00 cr.) Practical application of skills from earlier courses focused to increase efficiency and deliver product at a profit. Emphasis is on specification packages, computer-aided drafting, grading, market making; also methods of organizing factory layout, floor management, production standards, costing, production and quality control, personnel management. Assessment includes evaluation of team performance and analysis of roles and relationships within apparel companies. Not available for supplemental. Instruction (3.0). Requisite courses: Take FSP-2255. (Required, Previous).

FSP-2268 Fashion Internship (6.00 cr.) Optional capstone course is the culmination of the diploma program. Application and integration of skills established in previous courses combine with real-world experience to further growth and a continuation of learning opportunities, as applied experience in the apparel industry. Networking, building relationships within the industry with real life application for mentorship; developing portfolio experience and establishing a presence in the apparel industry. Students completing this course will receive a Letter of Recognition. Not available for supplemental. Work Experience (6.0). Requisite courses: Take FSP-2260, FSP-2261, FSP-2263. (Required, Previous).

(FWK) FIELD WORK

FWK-1125 Automotive Field Work (1.50 cr.) One week will be spent in an automotive shop setting with a work-site based experience host. The student will be exposed to industry demands and conditions. Graduates will prepare a complete resume, application and cover letter. Not available for supplemental. Work Experience (1.5). Equivalent to FWK-125. Requisite courses: Take AST-1116 and AST-1122. (Required, Previous).

FWK-1160 Field Placement I (1.50 cr.) This course is a general practicum designed for exposure to a variety of children with near-code or coded academic difficulties. Students in this practicum focus on adjusting to a professional school environment with reporting protocols to the teacher emphasized. Students will use their developing skills to make objective observations while helping in the classroom and reflect on their helping skills. Learning to record in an objective manner is an important part of this practicum. Students are expected to act and behave in a professional manner within the school environment. Students will be placed in schools in the community and surrounding areas. Integration seminars will give students opportunities to discuss and analyze experiences in their placement settings. Not available for supplemental. Work Experience (1.5). Equivalent to FWK-160.

FWK-1163 Field Placement II (1.50 cr.) This is a focused practicum designed for exposure to a specific near-code child or coded child in an individual or small-group assignment. Students in this practicum will refine their observation and recording skills and focus on the academic skills needed by the child they are supporting, always using the reporting protocol to the teacher. They will learn the balance between individual assignments and full-classroom assistance. Students will be placed in schools in the community and surrounding areas. Integration seminars will give students opportunities to discuss and analyze experiences in their placement settings. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (1.5). Equivalent to FWK-163. Requisite courses: TAKE FWK-1160; (Required, Previous).

FWK-2250 Field Work (3.00 cr.) An on-the-job learning experience for students, designed to encourage them to recognize and describe, in writing, the link between their work experience and their academic training. Prior relevant and appropriate work experience may be used. Requires approximately 150 hours of practicum work. Not available for supplemental. Work Experience (3.0). Equivalent to HOS-250, FWK-250.

FWK-2253 Managed Internship (3.00 cr.) An application of acquired technical, professional and troubleshooting skills in a workplace environment within the multimedia industry. This 120-hour internship provides real-world experience, support and mentoring. Emphasis is on company culture, exposure to clients, time and project management and professional growth. Work Experience (3.0). Equivalent to FWK-253. Requisite courses: Take CMM-2291; (Required, Previous).

FWK-2260 Field Placement III (1.50 cr.) A 144 hour practicum (minimum 6 weeks) exposing students to academic strategies and experiences with a student with exceptionalities. Focus on child-centered research and application of strategies under the guidance of a classroom teacher. College practicum supervision allows students opportunities to discuss and analyze experiences in their placement settings. Not available for supplemental. Work Experience (1.5). Equivalent to FWK-260.

FWK-2262 Field Placement IV (1.50 cr.) In this final practicum, students will be placed in a variety of schools, including alternate schools in the community and surrounding areas. They will be expected to demonstrate the knowledge, skills and attitudes necessary as an Educational Assistant by applying the information learned in all of their classes. Some specialization is available in the practicum, depending on the practicum site. Students will locate, summarize and utilize scholastically sound educational resources under the direction of the classroom teacher. Integration seminars will give students opportunities to discuss and analyze experiences in their placement settings. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (1.5). Equivalent to FWK-262. Requisite courses: TAKE FWK-2260; (Required, Previous).

FWK-2272 Corrections Practicum I (3.00 cr.) This course involves the first hand observation of professionals at work in selected correctional and/or public safety settings. The practicum experience exposes students to the necessary skills, knowledge, and attitudes which must be developed to become successful in a chosen field. Work Experience (3.0). Equivalent to FWK-272, CJP-272.

Course Descriptions FWK 2273 - GEO 2290

FWK-2273 Corrections Practicum II (3.00 cr.) This course involves the first-hand observation of professionals at work in selected correctional and/or public safety settings. The practicum experience exposes students to the necessary skills, knowledge, and attitudes which must be developed to become successful in a chosen field. Work Experience (3.0). Equivalent to FWK-273, CJP-273.

FWK-255 International Development Studies Fwk. • (12.00 cr.)
The International Development Studies Fieldwork course provides the learner with the opportunity to work on an international development project in a developing country and contribute to Canada's international development goals. The fieldwork experience will contribute to the learner's personal and professional growth. The project will allow the learner to develop skills in appropriate technologies regarding water and sanitation, will provide the opportunity to share basic knowledge and practices of public health and hygiene, and will provide the opportunity to live and work at the village level in one of the poorest regions of the developing world. The learner should have the fundamental skill set for one or more of the following competency sectors: water and sanitation, public health, and communications and small business enterprise. The primary objective of the course offering is to provide the learner with the opportunity to experience the many challenges faced in the poorest regions in the developing world and return to Canada with a fact-based understanding of the realities of these challenges. Prerequisites: Must have successfully completed two semesters as a full-time student in a diploma or degree program with a GPA of 2.75 or better. Must participate in two weekend workshops to be held in October and November. Not available for supplemental. Work Experience (192.0).

(GEO) GEOGRAPHY

GEO-1152 Geomatics Engineering Science • (3.00 cr.) A study of the physical Earth as it relates to the recognition of landforms, hydrology, soils and human features on the Earth's surface. An introduction to the use of remote sensing in the identification of these features and the Unified System of soil identification classification. Not available for supplemental. Instruction (3.0), Lab (3.0). Requisite courses: Take GEO-1181, GEO-1152L. (Required, Concurrent).

GEO-1156 Earth Sciences • (3.00 cr.)
An introduction to the processes that shape the landscapes of North America. It will include components of geology and geomorphology as they apply to the field of natural resource compliance. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take GEO-1156L (Required, Concurrent).

GEO-1165 Geographic Information Systems • (3.00 cr.) An introduction to geographic information systems (GIS) and its applications in the resource management sector. A skills based approach for acquiring, organizing, manipulating and analyzing spatial information using modern technology. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to GEO-165, RRM-276. Requisite courses: Take RRM-1197 (Required, Previous). Take GEO-1165L (Required, Concurrent).

GEO-1166 Physical Geology • (3.00 cr.)
A study of the major topics of physical geology including earth surface changes, the Earth's interior and the dynamic forces that shape the Earth. Field trips are required for this course. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to GEO-166, RRM-266. Requisite courses: Take GEO-1166L (Required, Concurrent).

GEO-1181 Geospatial Analysis I (3.00 cr.) A study of the fundamentals of topographic maps, thematic maps and remotely sensed images for the purposes of identifying, interpreting, and measuring earth features. Map projection methods, map reference grids, interpretation of topographic features, map symbology, and photogrammetric principles are discussed and applied. Not available for supplemental. Instruction (6.0). Requisite courses: Take CAD-1160. (Required, Previous). Take GEO-1152. (Required, Concurrent).

GEO-1185 Geodetic Fundamentals (3.00 cr.) An introduction to fundamental concepts of geodesy. A study of the concepts and methods concerned with the determination of the size and shape of the Earth. Topics of discussion include horizontal and vertical datum, gravity, centrifugal forces, different measurements of time, separation of the geoid and ellipsoid, deflection of the vertical, and different height systems. Global Navigation Satellite Systems (GNSS) will be introduced. Geodetic topics will be applied to GNSS and other geomatics applications. Not available for supplemental. Instruction (6.0). Equivalent to GEO-1182, GEO-182, GEO-180, GEO-270. Requisite courses: Take SUR-1150. (Required, Previous).

GEO-2252 Geographic Information Systems I • (6.00 cr.) An introduction to the creation of maps (cartography) using Geographic Information Systems (GIS) technology. Topics explored include the properties of maps, theories of map projection distortion, historical development of mapping, database manipulation, digital file maintenance and common GIS applications. Students will use a geographic information system to solve problems and to create, modify and publish map data and graphics. Not available for supplemental. Instruction (8.0). Requisite courses: Take GEO-1152, GEO-1181. (Required, Previous).

GEO-2280 Geographic Information Systems II • (3.00 cr.) An advanced application of current software and techniques in the GIS field. Students will study the theoretical aspects of various GIS applications and then apply the theory in the form of applied GIS projects. GIS applications include site suitability, interpolation methods and modeling, cost path analysis, 3-D analysis, point density and geostatistical analysis. Not available for supplemental. Instruction (5.0). Equivalent to GEO-280. Requisite courses: Take GEO-2252. (Required, Previous).

GEO-2290 Geospatial Analysis II (3.00 cr.) A study of the digital image analysis of aerial and satellite data for earth observation and studies of environmental change at a variety of spatial scales. Topics will include locating and downloading imagery, processing and enhancing imagery, integration with GIS data, supervised and unsupervised classification methods, and change detection measurement.

Practical exercises will focus on the use of industry standard digital image analysis software and applications. Not eligible for Prior Learning Assessment. Instruction (5.0). Equivalent to GEO-290. Requisite courses: Take GEO-2252 (Required, Previous).

GEO-2298 Work Experience • (1.50 cr.) An 80-hour optional field work experience placement providing an opportunity for involvement in engineering disciplines related to Geomatics Engineering Technology. An application of program skills and knowledge through exposure to field-specific activities performed by engineering technologists on a day-to-day basis. Individuals are required to participate as part of an engineering team to complete work assignments as specified by the engineering supervisor or their appointee. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (1.5).

GEO-3376 Advanced Geographic Information Systems • (3.00 cr.) An examination of data quality assessment, GIS development and implementation, advanced analysis techniques, environmental modeling and specialized environmental applications. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to GEO-2276, GEO-276. Requisite courses: Take GEO-1165. (Required, Previous). Take GEO-3376L. (Required, Concurrent).

GEO-3380 Hydrology • (3.00 cr.) A skills-based approach on the use of industry-standard concepts, analytical techniques and software to solve hydrological aspects of water resource projects related to surface water supply, drainage and flood control, creation of wetland habitat, protection of water bodies, and the hydraulic aspects of stream habitat enhancement and rehabilitation. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take GEO-3380L. (Required, Concurrent).

GEO-3382 Contaminant Hydrogeology (3.00 cr.) Measurement, monitoring and three-dimensional modelling of contaminant movement in saturated and unsaturated groundwater zones. Specialized software applied to hydrogeological and geochemical data will be used. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take GEO-3382L. (Required, Concurrent).

GEO-3383 Geomorphology • (3.00 cr.) This introductory geomorphology course offers an integrative, applications-centered approach to the study of the Earth's dynamic surface. Upon completion of this course, students will obtain a basic understanding of Earth surface processes and the evolution of topography over short and long timescales. Examples of practical applications will be taught throughout this course, showing how scientists are using geomorphological research to tackle critical societal issues (natural disaster response, safer infrastructure, protecting species, and more). Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take GEO-3383L (Required, Concurrent).

GEO-4464 Applied Limnology • (3.00 cr.) This course integrates aspects of chemistry, physics, hydrology, and ecology to create a broad perspective on lakes, rivers and other inland freshwater ecosystems. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take GEO-4464L (Required, Concurrent).

(HCA) HEALTH CARE AIDE

HCA-1103 Assist With Medication Delivery • (1.50 cr.) An examination and application of safe practices in assisting with medication delivery within the scope of the Health Care Aide. A blend of theory and lab will allow the student to become competent assisting with the various delivery routes. Not available for supplemental. Instruction (1.0), Lab (1.0). Equivalent to HCA-103. Requisite courses: Take HCA-1103L (Required, Concurrent).

HCA-1105 Practicum I • (1.50 cr.) This first practicum course provides the opportunity for application of safe work practices, working as a team member and assisting clients with activities of daily living in a healthcare setting. Not available for supplemental. Work Experience (1.5). Equivalent to HCA-105.

HCA-1107 Health and Chronic Illness (3.00 cr.) A study of the structure and function of the systems within the human body as well as the milestones of growth and development across a lifetime. The most common chronic illnesses will be examined, as well as translating this knowledge into best practices and safe care, based on the clients' diagnoses, needs and care plans. Not available for supplemental. Instruction (3.0). Equivalent to HCA-107.

HCA-1111 Practicum II • (1.50 cr.) This comprehensive final practicum provides the opportunity for students to apply the knowledge, skills and attitudes gained through their educational experience in caring for clients with diverse and complex needs within a healthcare setting. Not available for supplemental. Work Experience (1.5). Equivalent to HCA-111. Requisite courses: Take HCA-1103, HCA-1105, HCA-1114, HCA-1116. (Required, Previous).

HCA-1112 Safe Work Practices (3.00 cr.) A study of the role of the health care aide, functioning effectively as a team member and within defined legislation. Safety is also examined as it applies to the environment, the client and the health care aide. Not available for supplemental. Instruction (3.0), Lab (1.0). Equivalent to HCA-1101, HCA-101. Requisite courses: Take HCA-1112L. (Required, Concurrent).

HCA-1113 Communication in Health Care • (1.50 cr.) An introduction to communication in the health care environment, including verbal, non-verbal and written documentation. Areas of focus include challenges and barriers of clients/patients, as well as strategies to promote effective communication with these individuals. Not available for supplemental. Instruction (2.0), Lab (1.0). Equivalent to HCA-1106, HCA-106. Requisite courses: Take HCA-1113L. (Required, Concurrent).

HCA-1114 Clients With Complex Care (3.00 cr.) An introduction to the advanced skills for a HCA which focuses on supporting care activities such as ostomy care, respiratory care, catheter care, wound care, tube feeds, vital signs and specimen collection. These skills are studied and practiced within the legal roles and responsibilities of the HCA in the province of Alberta at this time. Roles and responsibilities, following client care plans and employer policies and procedures are emphasized. Not available for supplemental. Instruction (1.0), Lab (3.0). Equivalent to HCA-1109, HCA-109. Requisite courses: Take HCA-1114L. (Required, Concurrent).

Course Descriptions HCA 1115 - HUM 1155

HCA-1115 Assist With Activities of Daily Living • (3.00 cr.) A skills-based approach to providing client comfort and care. Emphasis is placed upon assisting clients with mobility and mealtime, as well as with basic tasks of grooming and hygiene. Instruction focuses on the safety of both the client and the caregiver. Not available for supplemental. Instruction (2.0), Lab (3.0). Requisite courses: Take HCA-1115L (Required, Concurrent).

HCA-1116 Specialized Client Needs (3.00 cr.) A study of the specialized needs and care of individuals with varying mental health diagnoses, developmental delays and physical disabilities across the lifespan. Dementia and end-of-life care are highlighted. Not available for supplemental. Instruction (2.0), Lab (1.0). Requisite courses: Take HCA-1116L (Required, Concurrent).

(HIS) HISTORY

HIS-1170 Western Civilization • (3.00 cr.) A survey of the history of western civilization including the important philosophical, religious, military, political and economic foundations of ancient, medieval and modern western societies. Not available for supplemental. Instruction (3.0). Equivalent to HIS-170, HIS-260.

HIS-2265 Canadian History • (3.00 cr.) A study of the major philosophical, cultural, economic, and political landmarks of Canadian history through the eras of New Frances, British North America, Confederation and 20th century. Not available for supplemental. Instruction (3.0). Equivalent to HIS-265. Requisite courses: Take any one of ENG-1150, ENG-1180, ENG-1190, HIS-1170, PSC-1150, PSC-1161 or PSC-1165. (Required, Previous).

HIS-2270 American History • (3.00 cr.) A study of the major philosophical, cultural, economic and political landmarks of American history during the colonial, revolutionary, Civil War and reconstruction, and 20th century periods. Not available for supplemental. Instruction (3.0). Equivalent to HIS-270. Requisite courses: Take any one of ENG-1150, ENG-1190, HIS-1170, HIS-2265, PSC-1161 or PSC-1165. (Required, Previous).

(HSP) HUMAN SERVICE PRACTICE

HSP-1151 Family Systems and Development • (3.00 cr.) An introduction to the family as a dynamic system, stages of family development, and an examination of family dynamics and issues within families. Not available for supplemental. Instruction (3.0). Equivalent to HSP-151, CYC-151.

HSP-2250 Behaviour Functions Individuals w/ ASD • (3.00 cr.) An application of the theory of the function of behaviour for individuals impacted by autism spectrum disorder from an ecological perspective. Topics will include functional behaviour assessment, motivations of behaviour, behaviour as communication, creating and implementation of strategies to decrease challenging behaviour, and proactive approaches to supporting positive behaviour. Not available for supplemental. Instruction (3.0).

(HTH) HEALTH

HTH-1121 Hospital Administration (1.50 cr.) This course covers a basic understanding of the hospital and how various units and systems work within a hospital setting. Topics include hospital organization, nursing organization, safety, emergencies and security, body mechanics and ergonomics, telephone and reception and time and stress management. Not available for supplemental. Instruction (2.0). Equivalent to HTH-121.

HTH-1125 Patients' Records/ Transcribing Orders • (3.00 cr.) This course covers the basic concepts of the Unit Clerk's responsibility regarding the processing of physicians' orders by providing the information of basic medical records and charts, chart forms, supplies and requisitions, medical terminology and common abbreviations and the importance of written communication and documentation of physicians' orders. This course is not subject to supplemental. Instruction (3.0). Equivalent to HTH-125.

HTH-1142 Medical Order Entry (3.00 cr.) A skills-based approach to medical transcription of physicians' orders within the healthcare system, specifically within hospital settings. Focus will be on transcription of physicians' orders into patients' charts and applicable electronic processing and entry of orders utilizing regional hospital systems. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0).

HTH-1143 Unit Clerk Practicum (3.00 cr.) This three week full-time practicum, consisting of 120 hours, provides students the opportunity to apply the knowledge and skills gained through their educational experience. The practicum experience is delivered in a health care setting under the guidance of a preceptor. Not available for supplemental. Not eligible for Prior Learning Assessment. Grading: CR/NCR. Work Experience (3.0). Equivalent to HTH-1131, HTH-131. Requisite courses: Take COM-1162, CPU-1151, CSP-1150, ENG-1142, HTH-1121, HTH-1125, HTH-1142. (Required, Previous).

(HUM) HUMANITIES

HUM-1150 Logic • (3.00 cr.) This is designed as a course in logical self-defence. In everyday life we are faced with the problem of making judgements. We must learn how to evaluate what we have read or been told if we are to make reasonable decisions. Once students have learned to recognize inappropriate evidence or excessive claims, they will be more able to ensure they do not inadvertently add to the confusion surrounding many issues by thinking, speaking or writing in an illogical fashion. Not available for supplemental. Instruction (3.0). Equivalent to HUM-150.

HUM-1155 Ethics • (3.00 cr.) Ethics is a philosophy course that focuses on ethical theories and moral issues. The course has two aspects: one emphasizes meta-ethical thinking, or thinking about the nature of ethics itself, and one emphasizes ethical thinking, or thinking about what to do in a particular situation. The course is both theoretical and practical. The course has implications that will impact upon students as persons in their private or public lives. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to HUM-155.

Course Descriptions HUM 1158 - HUM 2285

HUM-1158 Creative Problem-Solving (3.00 cr.) This course is an introduction to the process of creative problem-solving and personal and group development through creative behaviour. Concentration is on using methods and strategies of the creative process as a means to promote personal development and resolve problems individually and in small groups. Applications will focus on innovation, management and business change, including marketing. Students will be introduced to conceptual and skills based development through hands-on activities such as case studies, journals or portfolios, graphic organizers, videos and visual presentations, puzzles, games, projects, discussions and presentations. Not available for supplemental. Instruction (3.0). Equivalent to HUM-158.

HUM-1165 Introduction to Archaeology (3.00 cr.) HUM165 is the introductory course to the history, methods, techniques and practice of archaeology. Archaeologists study the past primarily through the material remains left by the occupants of a site. It is through the identification and interpretation of this evidence that we gain an understanding of our human heritage. Lectures presented throughout the course focus on methods archaeologists use to locate and excavate sites, analytical techniques used to process the data they collect, and interpretive methodologies. Examples discussed in class incorporate both historical and pre-historical cross-cultural archaeology. Not available for supplemental. Instruction (3.0). Equivalent to ARK-1165, HUM-165.

HUM-1180 Introduction to World Religions • (3.00 cr.) This humanities course will explore the major religious traditions of the world with regards to their historical evolution and philosophical framework. Major religious figures, significant events and religious literature from Hinduism, Buddhism, Judaism, Christianity and Islam will be studied in depth, with reference also to the rich religious traditions China, Japan, India, and North America. The goal of this course is not to examine the religious traditions in terms of right or wrong, but rather to be able to gain an understanding and hopefully an appreciation of each tradition on its own merits based on historical, political and social context. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to HUM-180.

HUM-1190 Popular Culture • (3.00 cr.) This humanities course serves as an introduction to cultural theory via a brief survey of Western popular culture. Students will analyse, according to cultural theory and concepts, various aspects of the popular culture of the past century, with examples drawn from the mass media and a wide variety of cultural texts. The course will follow the evolution of popular culture and the dialectical nature of idea exchange, by examining American popular culture and the influence it has had on the Canadian experience. Not available for supplemental. Instruction (3.0). Equivalent to HUM-190.

HUM-1195 Cultural Anthropology (3.00 cr.) This humanities/social science course explores the wonderful diversity of human cultures around the globe. It takes the view that we can learn more about ourselves by learning more about others. Anthropology, the study of humanity, asks a fundamental question: If we are all human beings, then why do we seem to be so different from each other? This course will help students increase their knowledge and understanding of the peoples with whom they share the Earth. It surveys approaches used by anthropologists to study humanity in all its variety and probes some of their explanations for diverse human cultural practices. The course considers how anthropology helps us understand contemporary global problems such as population growth, hunger, economic globalization and ethnic conflict. Not available for supplemental. Instruction (3.0). Equivalent to ANT-1195, HUM-195.

HUM-2261 Archaeology of Prehistoric Europe • (3.00 cr.) This course in the Archaeology of Prehistoric Europe focuses on understanding European cultures from the earliest arrival of the genus Homo on the continent through to the rise of Ancient Greece and Rome. Key topics to be examined include Europe's prehistoric beginnings, the transition from Neanderthals to modern humans roughly 28,000 years ago, and issues such as who built Stonehenge, what did the "Venus figurines" mean and who made them, how did agriculture come to play a key role in human lives, and why and how did complex urban-oriented groups and trade emerge? Not available for supplemental. Instruction (3.0). Equivalent to ARK-2261, HUM-261. Requisite courses: Take any one of HIS-1170 HUM-1165 HUM-1180 or HUM-1195; (Required, Previous).

HUM-2265 Archaeology of Ancient Civilizations • (3.00 cr.) This course surveys the development of ancient civilizations to familiarize students with the rich and varied cultures of the human past in order to increase awareness of the debt we, in the 21st century, owe to past diverse cultural developments. Consequently, the course will trace the development of urbanism and civilization subsequent to the emergence of agriculture, and will familiarize students with the representative cities, archaeological evidence, technological developments, and cultural characteristics of those civilizations. In particular, students will focus on the social organization, physical remains, arts, and history of the ancient states in Mesopotamia, Egypt, the Far East, the Middle East, South and Southeast Asia, Greece, Rome, Africa, and the Americas. Not available for supplemental. Instruction (3.0). Equivalent to ARK-2265, HUM-265. Requisite courses: Take any one of HIS-1170 HUM-1165 HUM-1180 or HUM-1195; (Required, Previous).

HUM-2281 Christianity • (3.00 cr.) A historical survey of the evolution of the Christian religion over the past two millennia, from its origins to its present day diversity. Focus is on its beliefs and practices and its formative role in Western society. Not available for supplemental. Instruction (3.0). Equivalent to HUM-281. Requisite courses: Take any one of ANT-1195 ARK-1165 HIS-1170 HUM-1155 or HUM-1180; (Required, Previous).

HUM-2285 Buddhism • (3.00 cr.) A survey of the evolution of the Buddhist tradition from its origins to its present day diversity. Focus is on the development of Buddhist thought and practice in Theravada and Mahayana Buddhism. Not available for supplemental. Instruction (3.0). Equivalent to HUM-285. Requisite courses: Take any one of ANT-1195 ARK-1165 HUM-1155 HUM-1180 or HIS-1170; (Required, Previous).

Course Descriptions HUM 2291 - IDM 1170

HUM-2291 Film Studies • (3.00 cr.) This humanities course will explore film, specifically the "art" of watching film, and examine film with respect to a variety of aspects: film history, cinematography, mise-en-scene, editing, story, thematic elements, film genres, auterism, adaptations and film theory. The student will be engaged in film on a variety of levels over the semester, from film critic to director, developing a sense of video literacy and film appreciation. The class will consist of lectures, the viewing of films, group discussion, and final class projects. The breadth of the course demands that students view some assigned films outside of class time. Not available for supplemental. Instruction (3.0). Equivalent to HUM-291. Requisite courses: Take any one of ANT-1195 ENG-1150, ENG-1165, ENG-1190, HUM-1155, or HUM-1190 (Required, Previous).

HUM-2295 Anthropology of Gender (3.00 cr.) This humanities/social science course examines the roles of women and men in a cross-cultural perspective that highlights variations in gender roles and interpersonal relations around the world. The aim is to introduce students to the anthropological study of gender, to help them acquire language and tools to think critically about gender, to explore historical changes in gender roles and relations and to reflect critically on gender in modern industrial and post-industrial nations. Not available for supplemental. Instruction (3.0). Equivalent to ANT-2295, HUM-295. Requisite courses: Take any one of HUM-1155, HUM-1180, HUM-1190, HUM-1195, SOC-1153 or SOC-1160; (Required, Previous).

HUM-3350 Ethics in Justice • (3.00 cr.) An exploration of ethics as it relates to the field of justice with a focus on how one's own values and morals influence decisions. Content includes a review of major ethical systems, theories of moral development and the implications of organizational subcultures. Instruction (3.0). Equivalent to HUM-350.

HUM-3355 Critical Thinking • (3.00 cr.) The development and application of critical thinking skills relative to the field of justice. Emphasis is on inductive and deductive logic, analysis of arguments, distinguishing between inference and fact, and establishing a credible argument. Builds on foundational content related to ethical decision making. Not available for supplemental. Instruction (3.0).

HUM-3370 Environmental Ethics (3.00 cr.) Moral problems arising from the relationships between humans and nature will be considered in terms of both general moral theory and environmental policy. Topics include moral standing, animal rights, treatment of non-human living beings, obligations to future generations, biotechnology, pollution, hazardous material and depletion of natural resources. Not available for supplemental. Instruction (3.0).

(IDM) INTERIOR DESIGN

IDM-1155 Professional Practice in Interior Design • (3.00 cr.) A detailed exposition to a variety of design topics and areas of expertise. Interior design related industries are studied and examined as they relate to human behavior, design assessment and awareness. Students produce an extensive range of projects showcasing their broad understanding in a variety of interior design related fields. Not available for supplemental. Instruction (3.0). Equivalent to IDM-155.

IDM-1158 Representations I • (3.00 cr.) An introduction to drawing as a means of communication. Mechanical one- and two-point perspectives are applied along with exploration of freehand drawing techniques. Skills are developed using a variety of drawing tools and media surfaces. Emphasis is placed on creating professional drawing presentations. Not available for supplemental. Instruction (6.0). Equivalent to IDM-158, IDM-154.

IDM-1159 Representations II • (3.00 cr.) A development of the skills introduced in Representations I, utilizing a variety of drawing and rendering tools, such as pencil, markers, paint, and pen to communicate design ideas and spatial elements integral to the design process. Digital enhancement and modification to the illustration is introduced. Not available for supplemental. Instruction (3.0). Equivalent to IDM-159, IDM-156. Requisite courses: Take IDM-1158; (Required, Previous).

IDM-1163 History of Interiors I • (3.00 cr.) Introduction to the historical survey of architecture, including interior environments, furniture and art of western civilizations considered in the setting of physical, socio-economic, political and cultural environments from ancient civilizations to the 18th century. Focus is on design styles, and the artifacts, spaces and buildings that come from their culture, place and time period. Topics include designers, design processes, materials, tools, techniques, features, ornamentation, landscapes, elements and principles. Not available for supplemental. Instruction (3.0).

IDM-1167 Interior Detailing I • (3.00 cr.) An introduction to manual drafting and residential construction. Basic drafting skills are developed with focus on lettering, line work, architectural symbols, and standard drafting practices. Detailed components relating to standard wood frame construction are examined. Projects are focused on the development of working drawings and related construction documents including floor plans, elevations, sections and schedules. Not available for supplemental. Instruction (6.0). Equivalent to IDM-167, IDM-166.

IDM-1170 Colour and Lighting (3.00 cr.) An in-depth study of colour theory and application as it relates to interior design. Technical concepts, psychological and behavioural aspects are studied in a variety of residential and commercial applications. Basic principles of light and colour are examined from biological, psychological, historical and cultural perspectives while the interrelationships between colour, texture and lighting are also studied. Not available for supplemental. Instruction (3.0). Equivalent to IDM-170.

Course Descriptions IND 1173 - IDM 2287

IDM-1173 History of Interiors II (3.00 cr.) A continuation of the historical survey of architecture, including interior environments, furniture and art of western civilizations considered in the setting of physical, socio-economic, political and cultural environments from 18th century to contemporary style. Focus is on design styles, the artifacts, spaces and buildings that come from their culture, place and time period including style-specific topics such as key designers, design processes, materials, tools, techniques, features, ornamentation, landscapes, elements and principles. Not available for supplemental. Instruction (3.0). Requisite courses: Take IDM-1163. (Required, Previous).

IDM-1179 Design Fundamentals (3.00 cr.) An overview of the basic elements and principles of design. Understanding of the human-built environment is explored creatively using two- and three-dimensional problem-solving techniques. Space, form, and context are analyzed and applied to various design challenges. Not available for supplemental. Instruction (6.0). Equivalent to IDM-179.

IDM-1181 Residential Design Studio (3.00 cr.) An introduction to the basic elements and principles of residential design theory. Applied projects will utilize basic design problem-solving processes which include consideration of the physical, functional and psychological needs of varying users. Ergonomic and anthropometric data are spatially considered and implemented into residential interior spaces. Not available for supplemental. Instruction (6.0). Equivalent to IDM-181, IDM-180. Requisite courses: Take IDM-1179; (Required, Previous).

IDM-1190 Digital Drafting • (3.00 cr.) An introduction to various digital drafting software used throughout interior design practice. Emphasis will be on the basic applications and commands using industry-standard AutoCAD software. Topics will range from the initial setup and basic knowledge of program function, problem-solving drawing exercises, through to production and printing of a full set of two-dimensional working drawings. Not available for supplemental. Instruction (6.0). Equivalent to IDM-190.

IDM-2255 Materials and Finishes (3.00 cr.) An overview of interior materials, elements, finishes and finishing techniques. Sustainability, durability and maintenance schedules are assessed for a variety of synthetic and natural materials. Research and critical analysis components and a hands-on approach will be emphasized. Not available for supplemental. Instruction (3.0). Equivalent to IDM-255.

IDM-2267 Interior Detailing II • (3.00 cr.) Design and detailing of components for commercial interiors, millwork, wall types and construction and floor and roof construction. A detailed set of working architectural drawings are produced and collaborative millwork drawings are produced in relation to Design Studio projects. Not available for supplemental. Instruction (6.0). Equivalent to IDM-267. Requisite courses: Take IDM-1167; (Required, Previous).

IDM-2275 Digital Modelling & Animation (3.00 cr.) A supplementary course building upon the foundational digital drafting and illustration concepts and skills, integrating a variety of photo realistic rendering software and animation technology. Focuses on creating digital still images in varied exterior environments. Production of professional interior animations showcasing a variety of commercial spaces in a realistic virtual world. Not available for supplemental. Instruction (3.0). Requisite courses: Take IDM-2290. (Required, Previous).

IDM-2276 Professional Portfolio (3.00 cr.) An integration of all course projects, illustration work and digital modelling into a professionally developed design portfolio in both print and online formats. Emphasis is on using a variety of visual and digital techniques to enhance design work, showcasing learning outcomes and skills. Incorporation of portfolio presentation in an interview setting. Not available for supplemental. Instruction (3.0). Requisite courses: Take IDM-1155, IDM-2278, IDM-2290. (Required, Previous).

IDM-2277 Practicum • (3.00 cr.) A culminating course utilizing skills acquired from core courses to be completed through a placement with a design-related employer. Practical application of professional interior design resume writing, interview skills, and work experience will be introduced. Industry standard equipment, professional site and relevant expertise will be provided to properly offer a complete work experience that supports learning outcomes. Placements must include guidance of a qualified supervisor operating in a student's chosen field and requires 120 hours of work experience. Not available for supplemental. Work Experience (3.0). Requisite courses: Take IDM-1170, IDM-1181, IDM-1190, IDM-2255. (Required, Previous).

IDM-2278 Corporate Design Studio (3.00 cr.) An intermediate level design studio course exploring commercial corporate design. Emphasis is on planning, functional requirements, and aesthetic considerations in designing corporate interior environments. An examination of building code requirements, barrier-free access, and sustainable design practices. Includes steps in the client consultation process from programming to presentation techniques. Not available for supplemental. Instruction (6.0). Requisite courses: Take IDM-1181, IDM-1190. (Required, Previous).

IDM-2279 Global Design Trends (3.00 cr.) An explorative look at design trends around the world. Assessment of sustainability, indoor environmental quality, universal design, building systems, technology and architecture. Applying current design considerations and practices into commercial applications with geographical and cultural requirements. In-depth examination of local and global design problems using a variety of visual and digital communication methods. Not available for supplemental. Instruction (3.0). Requisite courses: Take IDM-1173. (Required, Previous).

IDM-2287 Hospitality Design Studio (6.00 cr.) An advanced level design studio course exploring hospitality design featuring retail, restaurant and hotel interior design. Emphasis is on planning, functional requirements, and aesthetic considerations in designing hospitality interior environments. Topics covered include hospitality client needs, branding, space planning, material and furniture selection, building code requirements, barrier-free access, sustainable design practice, and presentation techniques used in the design of hospitality interior spaces. Not available for supplemental. Instruction (6.0). Equivalent to IDM-287, IDM-284. Requisite courses: Take IDM-1181, IDM-2290. (Required, Previous).

Course Descriptions IDM 2290 - JUS 3351

IDM-2290 Digital Illustration • (3.00 cr.) Builds upon existing knowledge and software skills acquired in digital drafting while integrating a variety of computer aided drawing and design technology. Emphasis will be on three-dimensional drawing, modeling, and rendering of interior spaces and components. Various digital illustration software will be utilized to develop conceptual drawings, working drawing, and design presentations. Not available for supplemental. Instruction (3.0). Equivalent to IDM-290. Requisite courses: Take IDM-1190; (Required, Previous).

(IND) INDEPENDENT STUDY

IND-1151 Independent Study • (1.50 cr.) Independent study is a learning experience in which students pursue a topic related to their program or proposed career. Students are responsible for developing an outline of the project they wish to undertake. Further information may be obtained from their Program Chair. Not available for supplemental. Not eligible for Prior Learning Assessment. Independent Study (1.5). Equivalent to IND-151.

IND-1153 Independent Study • (3.00 cr.) Independent study is a learning experience in which students pursue a topic related to their program or proposed career. Students are responsible for developing an outline of the project they wish to undertake. Further information may be obtained from their Program Chair. Not available for supplemental. Not eligible for Prior Learning Assessment. Independent Study (3.0). Equivalent to IND-153.

IND-2251 Independent Study • (1.50 cr.) A focused opportunity for students to conduct research regarding a topic related to their program or proposed career. Requires preparation and approval of a research outline prior to conducting the research, and writing a comprehensive paper summarizing research findings. Not available for supplemental. Independent Study (1.5). Equivalent to IND-251.

IND-2252 Independent Study • (1.50 cr.) A focused opportunity for students to conduct research regarding a topic related to their program or proposed career. Requires preparation and approval of a research outline prior to conducting the research, and writing a comprehensive paper summarizing research findings. Not available for supplemental. Independent Study (1.5). Equivalent to IND-252.

IND-2253 Independent Study • (3.00 cr.) Independent study is a learning experience where students pursue a topic related to their program or proposed career. Students are responsible for developing an outline of the project they wish to undertake. Further information may be obtained from their Program Chair. Not available for supplemental. Not eligible for Prior Learning Assessment. Independent Study (3.0). Equivalent to IND-253.

IND-2263 Independent Study • (1.50 cr.) Independent study is a learning experience where students pursue a topic related to their program or proposed career. Students are responsible for developing an outline of the project they wish to undertake. Further information may be obtained from their Program Chair. Not available for supplemental. Not eligible for Prior Learning Assessment. Independent Study (1.5). Equivalent to IND-263.

IND-4460 Professional Project • (3.00 cr.) This course is a directed learning experience in which the student pursues an applied project encompassing one or more of the primary goals of the agency or institution where they are working. The topic selections should be relevant to the student's placement agency and location. The Directed Field Study Co-ordinator must approve all projects at the outline phase. The final paper must be more than 5,000 words (20-30 pages) in length. This is a Directed Field Study. Not available for supplemental. Independent Study (3.0). Equivalent to IND-460.

(IRR) IRRIGATION TECHNOLOGY

IRR-1152 Introduction to Irrigation (3.00 cr.) This course provides an overview of irrigated agriculture in Western Canada. The importance of irrigation, with particular emphasis on the Alberta economy, will be examined. Topics will include the role of government in irrigation funding, water storage and distribution in Alberta, and water resource issues including tenure and resource allocation. Interprovincial and international water rights will also be studied. A variety of irrigation systems will also be introduced. Instruction (3.0). Equivalent to AGR-1171, IRR-152, AGR-193.

IRR-2252 Sprinkler Systems and Irrigation Mgmt. • (3.00 cr.) A study of the fundamentals of operating and maintaining field irrigation systems and scheduling irrigation applications for field crops. Emphasis is on the use of basic mathematical equations and various sources to obtain information required for effective irrigation management. Instruction (2.0), Lab (2.0). Equivalent to IRR-252. Requisite courses: Take RRM-1153, AGR-1168, PLT-1152, IRR-1152; (Required, Previous). Take IRR-2252L (Required, Concurrent).

(IST) INTERNATIONAL STUDIES

IST-2250 International Business Study Tour • (3.00 cr.) A focused opportunity for students to enhance their knowledge and awareness of world cultures and international business in the global marketplace. Includes an international study tour, as well as research, presentations, and travel planning. Not available for supplemental. Not eligible for Prior Learning Assessment. Independent Study (3.0). Equivalent to IST-250.

(JUS) JUSTICE STUDIES

JUS-3350 Victimology • (3.00 cr.) A study of the history, theories, statistical documentation and experiences of victims of crime. Content includes an exploration of the role and range of victim services, the role of media as it relates to victims and the methodology of restorative justice. Not available for supplemental. Instruction (3.0). Equivalent to COR-3350, COR-350.

JUS-3351 Intro to Research Methods in Justice • (3.00 cr.) An introduction to research methodology used in the field of justice. Focus is on applied or action research. Topics include ethical practices, research skills, critical analysis of information sources and introductory data analysis. Not available for supplemental. Instruction (3.0).

Course Descriptions JUS 3352 - JUS 4461

JUS-3352 Social Justice • (3.00 cr.) A study of the interrelationship between political processes, the legal system and social issues. Focus is on the analysis of factors that impact policy related to policing and corrections, the effects of the Canadian Charter of Rights and Freedoms on criminal law and the influence of societal dynamics on the provision of justice services. Not available for supplemental. Instruction (3.0).

JUS-3357 Contemporary Youth Justice in Canada • (3.00 cr.) An analysis of the youth justice system in Canada. Emphasis is on interpretation of federal legislation and its application in programming and treatment by various youth agencies. Not available for supplemental. Instruction (3.0).

JUS-3360 Indigenous Peoples & Culture in Justice • (3.00 cr.) An exploration of the diversity of Indigenous cultures before European contact, the effects of European colonization as well as Indigenous spirituality, traditional values and rules of behavior. Topics include the renaissance of Indigenous culture, the over representation of Indigenous peoples who come in contact with the justice system, and healing and intervention programs implemented in cooperation with Indigenous communities. Not available for supplemental. Instruction (3.0). Equivalent to COR-3360, COR-360.

JUS-3369 Program Evaluation • (3.00 cr.) An overview of techniques of program evaluation. Working from initial conception of evaluation, planning, observation gathering, analysis, report writing and presentation. Determining the depth and extent of services required, tracking implementation plans, and measuring the effectiveness of services utilizing research methods and concepts from several social science disciplines. Not available for supplemental. Instruction (3.0). Requisite courses: Take JUS-3351. (Required, Previous).

JUS-3372 Directed Topics in Criminal Justice • (3.00 cr.) An opportunity to research one or more topics of interest related to the field of justice. Consultation with the instructor will determine the expectations, criteria and timelines of the course assignments. Not available for supplemental. Independent Study (3.0).

JUS-3378 Women in Justice • (3.00 cr.) The analysis of women's issues from three perspectives: global, the role of women as professionals in the justice system, and the special needs of female offenders including current initiatives to address them. Topics include the challenges women face working in predominately male environments and the effects and influences which women have as professionals. Not available for supplemental. Instruction (3.0). Equivalent to COR-3378, COR-378.

JUS-3387 Crisis Management • (3.00 cr.) A study of crisis management skills necessary for the resolution of incidents common to justice environments. Emphasis is on the crisis management model, using a threat/risk assessment process, perpetrator profiling and crisis communications. Not available for supplemental. Instruction (3.0). Equivalent to COR-3387, COR-387.

JUS-3388 Orientation to DFS • (1.50 cr.) An orientation to directed field studies (DFS) designed to provide the knowledge and skills required for the DFS component of the Bachelor of Applied Arts in Justice Studies degree (4th year). Topics include DFS roles and responsibilities, the theory and practice of work-based learning, and the identification of suitable placements. Students will complete a course plan for their fourth year of study. Completion of this course is a pre-requisite for all fourth year (DFS) courses. Not eligible for Prior Learning Assessment. Not available for supplemental. Work Experience (1.5).

JUS-4450 Directed Topics in Criminal Justice • (3.00 cr.) An opportunity to research one or more topics of interest related to the field of justice. Consultation with the instructor will determine the expectations, criteria and timelines of the course assignments. DFS environment not required. Not available for supplemental. Independent Study (3.0). Equivalent to IND-4450, IND-450. Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4452 Analysis of Professional Relationships • (3.00 cr.) An analysis of the different types of interactions between a professional and their client(s). Areas to be considered: agency expectations, nature of the client(s), interviewing/ counseling skills, and strategies to overcome resistance. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4453 Policies and Procedures in Justice • (3.00 cr.) An applied study of how the organizational structure, policies and procedures and decision-making processes affect the operations of a justice environment. A comparison across environments will support a critical assessment of the functionality of current practices. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4454 Applied Conflict Management (3.00 cr.) An analysis of how conflict is handled in the Directed Field Study environment, both personally and organizationally. A critique of conflict management models and assessment of stress reduction strategies are covered. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4455 Comparative Justice Systems (3.00 cr.) A research course comparing justice practices in three other countries with those in Canada. A review of literature and analysis of data will compare values, limitations, practices and effectiveness of the outcomes of the selected systems. DFS environment not required. Not available for supplemental. Work Experience (3.0). Equivalent to COR-4455, COR-455. Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4457 Community Involvement for Professionals • (3.00 cr.) An assessment of one's involvement in a community organization or project as it relates to the role of a justice professional. Consultation with the instructor will determine the expectations, criteria and timelines of the course assignments. DFS environment is required. Not available for supplemental. Work Experience (3.0). Equivalent to COR-4457, COR-457. Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4461 Identified Population Study (3.00 cr.) A survey of the needs of an identified sub group served by the Directed Field Study (DFS) environment. Current literature is reviewed in relation to the demographics and characteristics of the sub group. Resources provided to the identified group will be assessed. DFS environment is required. Not available for supplemental. Work Experience (3.0). Equivalent to COR-4461, COR-461. Requisite courses: Take JUS-3388. (Required, Previous).

Course Descriptions JUS 4464 - LAR 0048

JUS-4464 Applied Research 1 • (3.00 cr.) The proposal phase of an applied research project. Activities to be completed include: identification of parameters of the project, literature review, clarification of the research question(s), and proposal of research methods. Implementation in the DFS environment would require obtaining applicable permissions. DFS environment recommended but not required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3351, JUS-3388. (Required, Previous).

JUS-4465 Diversity Seminar • (3.00 cr.) An exploration of the cultural make-up of an environment or community. Research will form a base for assessing the cultural dynamics of an environment/community in relation to justice practices. DFS environment not required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4468 Applied Research 2 • (3.00 cr.) The implementation phase of an applied research project. Following the proposal created in the Applied Research 1 course, the research process is implemented, and the findings documented, evaluated and presented. DFS environment recommended but not required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-4464. (Required, Previous).

JUS-4469 Program Development and Management • (3.00 cr.) An application and evaluation of program development and management skills. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3351, JUS-3369, JUS-3388. (Required, Previous).

JUS-4474 Safety in the Justice Environment • (3.00 cr.) An exploration of health and safety issues in a justice environment. Areas to be considered: legislation, workplace safety issues, accident investigation techniques and related documentation, and educational programs related to health and safety issues. DFS environment is required. Not available for supplemental. Work Experience (3.0). Equivalent to COR-4474, COR-474. Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4475 Critical Incident Analysis (3.00 cr.) An analysis of one or more critical incidents that have occurred in the DFS environment. Consultation with the instructor will determine the expectations, criteria and timelines of the course assignments. DFS environment is required. Not available for supplemental. Work Experience (3.0). Equivalent to COR-4475, COR-475. Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4480 Community Relationship Analysis • (3.00 cr.) A survey and critique of initiatives used in the DFS environment to strengthen cross agency connections and community relations and to build community capacity. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4481 Strategic Planning/Project Management • (3.00 cr.) A study and application of strategic planning and project management strategies. A comparison of strategic planning and/or project management processes leads to an opportunity to utilize and evaluate a selected process. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4482 Human Resources Management Justice Orgs • (3.00 cr.) An analysis of the management model used in the DFS environment as it relates to communication, planning, decision making and conflict resolution. Other areas to be considered include: mentorship strategies, stress management, professional development programs and relationships between management and the union(s). DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4483 Applied Leadership Justice Organizations • (3.00 cr.) An analysis of leadership styles and strategies used in the DFS environment. Formal and informal means to handle conflict and strategies to create effective teams are addressed. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

JUS-4484 Financial Mgmt. in Justice Organizations • (3.00 cr.) An exploration of the purpose, components and implications of the budgeting process in the DFS environment. DFS environment is required. Not available for supplemental. Work Experience (3.0). Requisite courses: Take JUS-3388. (Required, Previous).

(KEY) KEYBOARDING

KEY-1139 Introductory Keyboarding (3.00 cr.) This course covers the fundamentals of touch-typing. It develops skills required for typing business and personal letters, tables, memorandums and reports. It cannot be included as part of the credit requirement for the one-year and two-year Office Administration programs. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0). Equivalent to KEY-139.

KEY-1140 Document Processing (3.00 cr.) A skills-based approach to proper formatting of business documents. Includes letters, tables, memorandums and reports. Documents are keyed from printed, handwritten and electronic sources with an emphasis on producing error-free documents. Not available for supplemental. Instruction (5.0). Equivalent to KEY-140.

KEY-1144 Keyboard Speed Development (1.50 cr.) An individualized diagnostic and prescriptive skills-based approach to building keyboarding skill and speed. Instruction (2.0). Equivalent to KEY-144, KEY-143.

(LAR) LANGUAGE ARTS

LAR-0043 Language Arts I • (5.00 cr.) This course is designed to introduce basic literacy skills in reading, writing, speaking and listening, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (5.0). Equivalent to LAR-043.

LAR-0048 Language Arts II • (5.00 cr.) This course is designed to introduce intermediate literacy skills in reading, writing, speaking and listening, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (5.0). Equivalent to LAR-048.

Course Descriptions LAR 0055 - MAS 1125

LAR-0055 Language Arts III • (5.00 cr.) This course is designed to introduce advanced literacy skills in reading, writing, speaking and listening, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (5.0). Equivalent to LAR-055.

LAR-1130 College Reading and Writing (3.00 cr.) A skill-based approach designed to assist students in developing college level reading and writing skills. This course reviews basic academic writing tasks and grammar with a focus on sentences, paragraphs, and academic essays, including APA referencing. Students will work towards improving their reading comprehension and analyses of post-secondary material through the application of various critical thinking and reading strategies. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0).

(LAW) LAW

LAW-1150 Introduction to Environmental Law • (3.00 cr.) An introduction to the sources of Canadian environmental law and legal frameworks relevant to Canadian and global environmental issues. Emphasis will be placed on applicable federal and provincial acts and legislation designed to protect the environment or provide regulatory frameworks for land use planning and mitigation. Not available for supplemental. Instruction (3.0). Equivalent to LAW-2265, LAW-265.

LAW-1161 Introduction to Natural Resource Law • (3.00 cr.) An introduction to the Canadian legal system and sources of natural resource law. The role of resource law enforcement is a focus in addition to select resource laws that regulate air, land, fisheries and wildlife. Not available for supplemental. Instruction (5.0). Equivalent to LAW-161.

LAW-1164 Environmental Legislation (3.00 cr.) This course covers the study of statutes, regulations and relevant case law pertaining to the protection of the environment, including historical and constitutional aspects of environmental legislation. Overviews of federal and provincial environmental statutes form the basis of this course. Not available for supplemental. Instruction (5.0). Requisite courses: Take LAW-1150 (Required, Previous).

LAW-1166 Criminal Procedural Law (3.00 cr.) An exploration of the Criminal Code focusing on statute law, including interpreting, understanding and applying criminal procedural requirements. The Criminal Code and the Charter of Rights and Freedoms are examined with emphasis on arrest and search and seizure provisions. Instruction (5.0). Equivalent to LAW-1167, LAW-166.

LAW-1167 Criminal Procedural Law (3.00 cr.) An exploration of the Criminal Code focusing on navigating statute law, including interpreting, understanding and applying criminal procedural requirements. The Criminal Code and the Charter of Rights and Freedoms are examined with emphasis on arrest and release provisions. Not available for supplemental. Instruction (3.0). Equivalent to LAW-1166, LAW-166.

LAW-1172 Law for Corrections (3.00 cr.) This course covers the historical foundations of Canadian law and the process by which laws are developed. Included are the principles and purpose of sentencing as well as the sentencing instruments available to the court such as Discharges (with probation), Conditional Sentence Orders, and Incarceration. Early release from incarceration, both federal and provincial, via Parole and Temporary Absence are studied through the Correctional & Conditional Release Act, The Prison & Reformatories Act and the Alberta Corrections Act. Study of the Criminal Code is highlighted throughout this course with particular attention to search and seizure, use of force and Judicial Interim Release via Recognizance Orders and Peace Bonds. The Charter of Rights and Freedoms and Freedom of Information and Privacy Act (FOIP) are studied from the perspective of victim-related legislation. Current legal issues in corrections will be explored with students expected to make written and classroom presentations. Not available for supplemental. Instruction (4.0). Equivalent to LAW-172.

LAW-1176 Criminal Offences • (3.00 cr.) An in-depth analysis and application of criminal offences including the statutory provisions, elements of the offence and relevant case law. The most common criminal offences as identified by current data are studied. Not available for supplemental. Instruction (3.0). Equivalent to LAW-176. Requisite courses: Take LAW-1167 (Required, Previous).

LAW-2254 Applied Law • (3.00 cr.) The practical application of previously obtained justice knowledge and training to situations likely to be encountered in a preliminary investigation. Selection and completion of all documentation appropriate to criminal prosecutions, with emphasis on critical thinking, problem solving, and communication. Not available for supplemental. Instruction (3.0). Equivalent to LAW-254. Requisite courses: Take LAW-1176 (Required, Previous).

LAW-2264 Courtroom Procedures (3.00 cr.) An examination of the Canada Evidence Act and Rules of Evidence pertaining to testifying in criminal court. Addresses the roles of the prosecutor, defence counsel, investigator and witness with a focus on officer testimony in court. Not available for supplemental. Instruction (3.0). Equivalent to LAW-264. Requisite courses: Take LAW-2254 or LAW-1161. (Required, Previous).

(MAS) MASSAGE THERAPY

MAS-1122 Practicum I • (1.50 cr.) The application and reinforcement of basic information taught in massage theory classes. The simulated clinic provides a professional setting in which to practice basic knowledge and techniques, covering areas of draping, bolstering, positioning and turning clients. Introduction to record-keeping, filing systems and journal entries are taught. FOIP and other confidentiality concerns are covered. Body mechanics and personal safety issues are addressed and monitored for both student and client. Students will begin to develop an ethical professionalism. All time will be spent on campus. Not available for supplemental. Work Experience (1.5). Equivalent to MAS-122.

MAS-1125 Practicum II • (3.00 cr.) In this practicum students begin working in the on-campus massage clinic and at various community-based events. Students will build upon their knowledge and skills acquired in previous courses. Students will further develop their understanding of terminology, anatomy and physiology, pathology, assessments and professional-client communication. Practicum requires approximately 190 hours of work in student clinic and the community. Work Experience (3.0). Requisite courses: Take MAS-1122. (Required, Previous).

Course Descriptions MAS 1130 - MAS 2260

MAS-1130 Pathology • (3.00 cr.)
An exploration of pathology as it relates to basic structure and functioning of body systems, providing students with a clear understanding of the topic. In detail study, the course examines pathology as it relates to massage and painful tissues. Students will learn which pathologies they can and cannot affect with massage therapy. Instruction (3.0). Equivalent to MAS-130. Requisite courses: Take BIO-1160. (Required, Previous).

MAS-1140 Basic Massage • (3.00 cr.)
An introduction to practical massage techniques and theory. It includes physiological, psychological and mechanical effects of massage, indications and contraindications as well as introduction to strokes. Work involves hands-on practice. At the end of the course, students will be able to competently perform a full body massage. Instruction (2.0), Lab (3.0). Equivalent to MAS-140. Requisite courses: Take MAS-1140L and BIO-1160. (Required, Concurrent).

MAS-1152 Professional Practices Massage Therapy • (3.00 cr.)
Students will develop an understanding and broaden their knowledge of issues such as professionalism, boundaries, communication with clients and allied health disciplines, healthy work environments, ethics, informed consent, confidentiality, and other contemporary issues. Instruction (3.0). Equivalent to MAS-2252, MAS-252, MAS-144.

MAS-1157 Massage Techniques I (3.00 cr.) An exploration of a variety of therapeutic techniques that treat deep tissue pathologies. Various advanced techniques and their theories including neuromuscular therapy, sports massage, ice massage, trigger point therapy and cross fiber frictioning will be addressed. Upon completion of the course, it is expected that the student will have a strong understanding of the anatomical and physiological mechanisms of common soft tissue injuries and be able to apply the advanced techniques taught to successfully treat a variety of conditions. Instruction (2.0), Lab (2.0). Equivalent to MAS-157, MAS-251, MAS-141. Requisite courses: Take MAS-1140; (Required, Previous). Take MAS-1157L (Required, Concurrent).

MAS-2250 Advanced Massage • (3.00 cr.)
An exploration of massage treatment techniques and advanced strokes are explored in greater depth and incorporates treatment of acute to chronic pathologies/conditions, building upon the basics learned in previous courses. Students are expected to participate in hands-on practice to integrate the theory with skills. Instruction (1.0), Lab (3.0). Equivalent to MAS-250, MAS-145. Requisite courses: Take MAS-1140; (Required, Previous). Take MAS-2250L (Required, Concurrent).

MAS-2253 Assessment for Massage Therapists I • (3.00 cr.) A skills-based approach helping train students to effectively interview a client and perform a basic physical assessment. Students will learn gait, palpation, joint, nerve and muscle testing assessment techniques. Pathologies and conditions will be assessed, contraindications addressed, as well as special tests for each part of the body. This course deals with the lower extremities of the body. Interpretation of the information, development of a care/treatment plan and documentation for communication with other health care professionals will be addressed. Instruction (1.5), Lab (1.5). Equivalent to MAS-253, MAS-126. Requisite courses: Take MAS-1140; (Required, Previous). Take MAS-2253L (Required, Concurrent).

MAS-2254 Special Populations I (3.00 cr.) An introduction to integrating complex dysfunctions and pathologies that massage therapists will encounter in their practices with appropriate treatment protocols. The special populations covered will be either pathology based or mechanically based. Each module will move students through the process the dysfunction/pathology takes and the treatment protocol that would be implemented. It is expected that students will integrate techniques covered in previous courses and also begin to show acquired knowledge skills. Not available for supplemental. Instruction (2.0), Lab (3.0). Equivalent to MAS-254, MAS-121. Requisite courses: Take MAS-1140; (Required, Previous). Take MAS-2254L (Required, Concurrent).

MAS-2255 Practicum III • (3.00 cr.)
The application of experience previously gained in theory and practicum courses. The individual will be able to demonstrate skills, competency and confidence in providing client-focused massage treatments. Students will work in the on-campus clinic, community-based work experiences and a professional preceptorship. Practicum requires approximately 190 hours of work in student clinic and the community. Work Experience (3.0). Equivalent to MAS-255, MAS-124. Requisite courses: Take MAS-1125 (Required, Previous).

MAS-2257 Massage Techniques II (3.00 cr.) An application of advanced massage and hydrotherapy techniques in a spa and esthetic practice setting. Addresses the physiological effects of several techniques including paraffin dips, wraps, mud applications and skin exfoliation. Instruction in contraindications, technical protocols and treatment modifications allow for the incorporation of a variety of spa and esthetic techniques into a traditional massage treatment. Not available for supplemental. Instruction (1.0), Lab (2.0). Equivalent to MAS-257, MAS-142. Requisite courses: Take MAS-2257L (Required, Concurrent).

MAS-2258 Assessment for Massage Therapists II • (3.00 cr.) An exploration of assessment that builds upon the skills acquired in Assessment for Massage Therapists I. Orthopedic assessment procedures are reviewed. Course content focuses on the upper extremities, including the development of assessment and care/treatment plans of the upper body. Instruction (1.5), Lab (1.5). Equivalent to MAS-258, MAS-128. Requisite courses: Take MAS-2253; (Required, Previous). Take MAS-2258L (Required, Concurrent).

MAS-2259 Practicum IV • (3.00 cr.)
The application of theory and skills that allows for the development and presentation of a comprehensive treatment plan for clients with specific pathologies. Students provide treatment to the clients in the on-campus clinic. Participation in mentorship, leadership and community events will take place. Practicum requires approximately 160 hours of work in student clinic and the community. Work Experience (3.0). Equivalent to MAS-259. Requisite courses: Take MAS-2255; (Required, Previous).

MAS-2260 Special Populations II (3.00 cr.) Builds upon knowledge and skills learned in Special Populations I, including more complex pathologies as well as the manifestation of multiple pathologies and

how to approach the treatment of the increasingly complex client. The focus is on therapeutic massage for clients with special needs such as chronic disease conditions and disabilities, seniors, and post-surgical clients. Instruction (2.0), Lab (2.0). Equivalent to MAS-260. Requisite courses: Take MAS-2254; (Required, Previous). Take MAS-2260L (Required, Concurrent).

MAS-2261 Massage Seminar • (1.50 cr.) An introduction to complementary disciplines and current issues affecting practicing professionals. Para health practitioners and other business professionals will guest lecture in a seminar style setting. Students can expect hands-on demonstrations, group discussions, and opportunities for engagement with the speakers. Instruction (1.0). Equivalent to MAS-261, MAS-149.

MAS-2262 Integrated Practices in Massage Therapy • (3.00 cr.) The examination and exploration of issues and the effects of adjunctive therapies from the perspective of improving client outcomes. Pharmacology and nutrition will be explored to develop a framework to better assess and treat clients of massage therapy. Current literature and research will be used to further broaden and evaluate the topics of study. Not available for supplemental. Instruction (3.0). Requisite courses: Take MAS-1130, MAS-1152, MAS-2255 (Required, Previous).

(MGT) MANAGEMENT

MGT-2251 Events and Conference Management • (3.00 cr.) An introduction to planning and managing meetings, events, conferences, trade show exhibits, and special events. Includes development of marketing plans, organization of registration and sales, promotion, advertising, negotiations and contracts, admission systems, billing, and post-event review. Instruction (4.0). Equivalent to MGT-251.

MGT-3370 Management in Justice Organizations • (3.00 cr.) A study of the functions, models and challenges of management in a justice organization. Areas of emphasis include organizational planning, budgetary considerations, human resource management, labour relations, program provision and relationships with stakeholders. Instruction (3.0). Equivalent to MGT-370.

MGT-3375 Leadership in Justice Organizations • (3.00 cr.) A survey of leadership styles and theories as they apply to the field of justice. Key topics include dealing with conflict, team building, community and interagency relations, patterns of authority, use of power and evaluating one's own leadership style. Instruction (3.0). Equivalent to MGT-375.

(MKT) MARKETING

MKT-1152 Commodity Marketing (3.00 cr.) An overview of the alternatives available in the marketing of agricultural commodities. Topics include the role of futures markets, the mechanics of futures trading, the use of futures market to hedge, and the interpretation of market information. Instruction (3.0). Equivalent to MKT-152, AGR-279.

MKT-1160 Marketing and Research Essentials • (3.00 cr.) This overview course will introduce students to fundamental concepts of marketing and market research. Learners will be offered a working knowledge of basic marketing theories and concepts, marketing research principles and marketing situational analysis. Using case studies and final marketing research project, learners will examine buyer behaviour, market identification, market segmentation, pricing, logistics, market research through primary and secondary data sources, data acquisition and analysis and finally communicating research results. This course is designed particularly for students in the Advertising/Public Relations program. Not available for supplemental. Instruction (5.0). Equivalent to MKT-160.

MKT-1188 Introduction to Marketing (3.00 cr.) An intensive orientation to all aspects of marketing including management's role in market research, understanding consumer behavior, targeting, planning and developing products. Includes decision making regarding pricing strategies, appropriate communication methods and tools, and logistics and distribution channels. Case studies are used to provide the context of actual businesses and to analyze problems and concepts regarding all aspects of marketing. Instruction (5.0). Equivalent to MKT-188.

MKT-2250 Advertising Essentials (3.00 cr.) Covers various aspects of advertising including the creation of advertising messages, use of appropriate visual elements, specialized media, as well as marketing and advertising research. Not available for supplemental. Instruction (3.0). Equivalent to MKT-250, BIS-104.

MKT-2260 International Marketing (3.00 cr.) An overview of marketing strategy from a global perspective. Foreign nations are viewed as sources of potential markets as well as sources of competition. Includes exposure to market entry, strategy, adaptation to environmental and cultural differences, and the use of integrated marketing communication tools. Topics such as free trade versus protectionism and multi-country trade agreements are discussed. Instruction (3.0). Equivalent to MKT-260. Requisite courses: TAKE MKT-1188; (Required, Previous).

MKT-2275 Electronic Commerce (3.00 cr.) A comprehensive study of the electronic commerce methods used by businesses. Uses a marketing perspective to examine the Internet as a tool for managers and owners, and to forecast future changes. Covers e-commerce strategies for marketing, sales, communication, purchasing, logistics and support activities. Not available for supplemental. Instruction (3.0). Equivalent to MKT-275. Requisite courses: TAKE MKT-1188; (Required, Previous).

MKT-2277 Merchandise Administration (3.00 cr.) An analysis of the Canadian retail market. Students are prompted to develop a strategic retail plan including decisions regarding retail location, store space layout and design, merchandise presentation, inventory management, pricing, staffing, and customer service. Instruction (5.0). Equivalent to MKT-277. Requisite courses: Take MKT-1188; (Required, Previous).

MKT-2279 Applied Sales • (3.00 cr.) Covers the universal application of principles of selling, even for those who do not expect to enter the field of sales. Features cases, research, presentation, micro sales situations and class discussion and involvement. Not available for supplemental. Instruction (3.0). Equivalent to CAP-2255, MKT-279, CAP-255. Requisite courses: TAKE MKT-1188; (Required, Previous).

Course Descriptions MKT 2281 - MTH 0055

MKT-2281 Marketing Logistics
(3.00 cr.) Covers essential aspects of supply chain management, including inventory, warehousing, transportation, purchasing, packaging, and materials handling, with a focus on enhancing efficiency and customer service. Field studies provide opportunity to examine real-world companies and situations. Not available for supplemental. Instruction (3.0). Equivalent to MKT-281. Requisite courses: TAKE MKT-1188; (Required, Previous).

MKT-2283 Advertising • (3.00 cr.)
Covers advertising as an integral element of the marketing mix. Topics include various media, their particular advantages and limitations, problems of originating and placing advertising, budgeting and control of advertising expense, and implications of the social responsibility of advertisers. Not available for supplemental. Instruction (5.0). Equivalent to MKT-283, BUS-283. Requisite courses: Take MKT-1188 (Required, Previous).

MKT-2288 Marketing Management
(3.00 cr.) The analysis of the inter-relationship between strategy, tactics and other aspects of planning, organizing and controlling for marketing and management. A theoretical approach is used to supplement application of marketing management to case studies and decision-making activities. Includes many of the elements covered throughout other marketing courses, integrating them in the analysis and creation of marketing strategies. Not available for supplemental. Instruction (5.0). Equivalent to MKT-288. Requisite courses: TAKE MKT-1188; (Required, Previous).

MKT-2290 Marketing Research
(3.00 cr.) A hands-on approach to market research concepts and phases. Students conduct research studies for a variety of projects, gaining practical experience in survey design, focus group facilitation, as well as research using observation, interviews and more formal strategies. Research projects vary from term to term. Instruction (5.0). Equivalent to MKT-290. Requisite courses: TAKE MKT-1188; (Required, Previous).

(MTH) MATHEMATICS

MTH-0009 Mathematics 0009 • (6.00 cr.)
Covers preparation for introductory algebra. Topics covered are solution of simple linear equations and inequalities, basic manipulation with exponents. Students registering in this course should have successfully completed MTH-0055 or equivalent, or have tested at this level on an assessment test. Not available for supplemental. Instruction (6.0).

MTH-0010 Mathematics 0010 • (6.00 cr.)
Covers the basic techniques of algebra from operations on rational numbers through equations and inequalities, factoring and algebraic fractions. Topics covered include basic geometry and trigonometry. Students registering in this course should have successfully completed MTH-0009. Not available for supplemental. Instruction (6.0).

MTH-0020 Mathematics 0020 • (6.00 cr.)
A continuation of algebra and geometry from MTH-0010 and includes factoring, systems of equations, quadratic equations, operations with radicals, rational expressions, rational exponents, graphing and trigonometry on oblique triangles. Students registering in this course should have successfully completed MTH-0010. Not available for supplemental. Instruction (6.0).

MTH-0030 Mathematics 0030 • (6.00 cr.)
Covers transformations; polynomial, exponential, logarithmic, and trigonometric functions and analysis; sequences, series and combinations. Students registering in this course should have successfully completed MTH-0020 or equivalent placement testing. Not available for supplemental. Instruction (6.0).

MTH-0032 Mathematics 0032 • (6.00 cr.)
Covers fundamental algebra review, transformations, combinations, permutations, probability, rational expressions and equations. Topics included are polynomials, exponential, logarithmic and sinusoidal functions, as well as trigonometric functions. Students registering in this course should have successfully completed MTH-0020 or equivalent placement testing. Not available for supplemental. Instruction (6.0).

MTH-0037 Introduction to Calculus
(6.00 cr.) An introduction to differential and integral calculus with practical applications to distance, velocity and acceleration, maxima and minima, sequences and limits, related rates, the integral as an area, and volumes by revolution. Students registering in this course should have successfully completed MTH-0030 or Math 30 (Pure) or equivalent. Not available for supplemental. Instruction (6.0).

MTH-0043 Math Fundamentals I
(5.00 cr.) This course covers reading and writing numbers, understanding of whole-number concepts; addition, subtraction, multiplication and division of whole numbers; and measurement skills. Decimals, graphing and some computations with decimals are introduced. Effective problem-solving processes with practical applications are developed. Instruction (5.0). Equivalent to MTH-043.

MTH-0048 Math Fundamentals II
(5.00 cr.) This course covers whole number concepts, problem-solving strategies, computation skills with whole numbers, decimals, computation with decimals, equivalents, and graphing. Instruction (5.0). Equivalent to MTH-048.

MTH-0054 Mathematics Foundations
(5.00 cr.) This course covers the mathematical skills necessary to undertake pre-algebra and algebra courses in mathematics. Topics include operations with whole numbers, integers, decimals, fractions, rational expressions and percents; metric measurement; geometry; and problem-solving strategies. Instruction (5.0). Equivalent to MTH-054.

MTH-0055 Math Fundamentals III
(5.00 cr.) This course covers whole numbers, integers, rational numbers, decimals and fractions, percent and rates, metric measurement, geometry, graphing, equivalents, and use of the calculator. Effective problem solving strategies are developed. Instruction (5.0). Equivalent to MTH-055.

Course Descriptions MTH 0060 - MTH 1165

MTH-0060 Mathematics 0060 • (5.00 cr.) Covers preparation for introductory algebra. Topics covered are solution of simple linear equations and inequalities, basic manipulation with exponents. Students registering in this course should have successfully completed MTH-0055 or equivalent or have tested at this level on an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to MTH-060.

MTH-0075 Mathematics 0075 • (5.00 cr.) Covers the basic techniques of algebra from operations on rational numbers through equations and inequalities, factoring and algebraic fractions. Topics covered include basic geometry and trigonometry. Students registering in this course should have successfully completed MTH-0060. Not available for supplemental. Instruction (5.0). Equivalent to MTH-075.

MTH-0085 Mathematics 0085 • (5.00 cr.) A continuation of algebra and geometry from MTH-0075 and includes factoring, systems of equations, quadratic equations, operations with radicals, rational expressions, rational exponents, graphing and trigonometry on oblique triangles. Students registering in this course should have successfully completed MTH-0075. Not available for supplemental. Instruction (5.0). Equivalent to MTH-085.

MTH-0092 Mathematics 0092 • (5.00 cr.) Covers fundamental algebra review, transformations, combinations, permutations, probability, rational expressions and equations. Topics included are polynomials, exponential, logarithmic and sinusoidal functions, as well as trigonometric functions. Students registering in this course should have successfully completed MTH-0085 or equivalent placement testing. Not available for supplemental. Instruction (5.0). Equivalent to MTH-092.

MTH-0095 Mathematics 0095 • (5.00 cr.) Covers transformations; polynomial, exponential, logarithmic, and trigonometric functions and analysis; sequences, series and combinations. Students registering in this course should have successfully completed MTH-0085 or equivalent placement testing. Not available for supplemental. Instruction (5.0). Equivalent to MTH-095.

MTH-0097 Introduction to Calculus (5.00 cr.) An introduction to differential and integral calculus with practical applications to distance, velocity and acceleration, maxima and minima, sequences and limits, related rates, the integral as an area, and volumes by revolution. Students registering in this course should have successfully completed MTH-0095 or MTH30 (Pure) or equivalent. Not available for supplemental. Instruction (5.0). Equivalent to MTH-097.

MTH-1130 Basic College Mathematics (3.00 cr.) This course is designed for students to develop college-level math skills for non-mathematical programs. Students will extend their understanding of arithmetic and algebra and develop their ability to reason by collecting, analyzing, and evaluating data involving one variable and connecting probability and statistics. Not available for supplemental. Instruction (3.0). Equivalent to MTH-130.

MTH-1141 Math for Health Sciences (3.00 cr.) This course is specifically for pre-assessed students intending to enter a program within the Centre for Health Justice and Human Services at Lethbridge College. It will provide students with a multidimensional, contextual learning experience for acquisition of pre-requisite content and skills in mathematics including concepts, terms, expressions, applications, equation, and problem-solving. Successful completion to the standard set by the program(s) pre-requisite requirement will provide opportunity for entry into the identified program(s) in the Centre for Health Justice and Human Services. Instruction (5.0). Equivalent to MTH-141.

MTH-1149 Pre-Calculus • (3.00 cr.) An introduction to the topics required before beginning calculus. Topics include operations on real numbers, the Cartesian coordinate plane, algebraic equations, functions and graphs, trigonometric functions and problem-solving skills. The calculus topics that will be covered include limits, slope and area under the curve. Instruction (3.0). Equivalent to MTH-149, MTH-146.

MTH-1150 Engineering Math I • (3.00 cr.) An introduction to the mathematical concepts required for the engineering technologies in preparation for calculus. Topics include unit analysis and unit conversion, the Cartesian coordinate plane, algebraic equations, trigonometric functions, and problem-solving skills. Mathematical concepts will be applied to physical problems including vector analysis, surveying applications, friction, optical instruments, and kinematics. Introductory calculus topics include limits, slope and area under the curve. Not available for supplemental. Instruction (6.0).

MTH-1152 Mathematics for CIT (3.00 cr.) An exploration of mathematical calculations required for data processing. Includes binary, octal, and hexadecimal numbering systems and arithmetic, as well as sets, logic, Boolean algebra, arrays, solution of equations by matrix calculations. Not available for supplemental. Instruction (3.0). Equivalent to MTH-152.

MTH-1156 Techniques of Calculus (3.00 cr.) This course covers functions, limits, derivatives, and extreme problems, definite integral, differentiation and integration of rational functions. Not available for supplemental examination. Instruction (5.0). Equivalent to MTH-156.

MTH-1160 Calculus I • (3.00 cr.) A study of calculus which covers both differentiation and integration. Topics include a review of limits, the definition of derivative, differentiation rules, derivative applications, and integration as area, the fundamental theorem of calculus, techniques of integration, integration applications and elementary first order differential equations. Students are expected to have a basic understanding of the geometry of calculus, the idea of limit, slope and area under a curve. Not available for supplemental. Instruction (3.0). Equivalent to MTH-160, MTH-154. Requisite courses: Take MTH-1149; (Required, Previous).

MTH-1165 Calculus II • (3.00 cr.) This is a technical math course specifically suited to engineering technologists. It includes a basic understanding of Integral calculus and its applications along with an introduction to differential equations and Taylor series. Topics may include the definition of integration and the fundamental theorem of calculus, rules for integrating functions including algebraic, trigonometric, logarithmic and exponential functions, and applications of integration including centers of mass, work, fluid pressure, areas and volumes. Topics in differential equations may include slope fields, exponential growth and decay, trajectories and fluid flow. Not available for supplemental or challenge. Instruction (3.0). Equivalent to MTH-165, MTH-180. Requisite courses: TAKE MTH-1160; (Required, Previous).

Course Descriptions MTH 1170 - NSG 2250

MTH-1170 Engineering Math II • (3.00 cr.) A study of calculus which covers both differentiation and integration. Topics include a review of limits, an intro into complex numbers, the definition of derivative, differentiation rules, derivative applications, and integration as area, the fundamental theorem of calculus, techniques of integration, partial fraction decomposition, integration applications, methods of approximating definite integrals and elementary first order differential equations. Students are expected to have a basic understanding of the geometry of calculus, the idea of limit, slope and area under a curve. Not available for supplemental. Instruction (4.0). Requisite courses: Take MTH-1150. (Required, Previous).

(MUS) MUSIC

MUS-1150 Music Appreciation • (3.00 cr.) This course is a general introduction to the art music of the western world. Students will develop listening skills, a musical vocabulary, and some knowledge of prominent composers and their works in a historical context. Not available for supplemental. Instruction (3.0). Equivalent to MUS-150.

(NAT) NATIVE AWARENESS

NAT-1150 Exploring Indigenous Perspectives • (3.00 cr.) An exploration of indigeneity and what it means to be indigenous in Canada. Students apply indigenous perspectives in areas of the environment, social issues, aesthetics, and history and participate in reflective practice and community building. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0).

NAT-1155 Introduction to Native American Studies • (3.00 cr.) This course is an introduction to Native American culture and heritage from traditional to contemporary times. Knowledge gained in the course will prove invaluable for students considering a career in which they will be interacting with First Nations People or for increasing an individual's general understanding and sensitivity toward the First Nation's perspective. Not available for supplemental. Instruction (3.0). Equivalent to NAT-155.

NAT-2250 Aboriginal Education for Prof Engagement • (3.00 cr.) Students will continue to develop their knowledge of Aboriginal peoples' histories, educational experiences, knowledge systems, and will further develop an understanding of the implications of this knowledge to their future professional roles and obligations. Professional students will engage in a learning process of self-and-other awareness. Not available for supplemental. Instruction (3.0).

(NSG) NURSING

NSG-1150 Concepts of Health I (3.00 cr.) This course provides an introduction to concepts of health and wellness for individuals and families, the role of the nurse, and the use of group process strategies to support self-directed learning. Instruction (3.0). Equivalent to NSG-1168, NSG-150. Requisite courses: Take NSG-1163 (Required, Concurrent).

NSG-1155 Concepts of Health: Individuals/Families • (3.00 cr.) This course provides an introduction to the concepts of community and population health, adult learning principles and strategies, the relationship of evidence to nursing practice, and strategies for individual contributions to effective group process. This course continues to explore concepts of health and wellness for individuals and families. Instruction (3.0). Equivalent to NSG-155. Requisite courses: Take NSG-1163, NSG-1168 (Required, Previous). Take NSG-1173 (Required, Concurrent).

NSG-1163 Introduction to Nursing Practice • (6.00 cr.) This first nursing practice course provides the foundation for developing therapeutic and caring relationships with clients and introduces concepts of health assessment and basic nursing skills. Practice occurs in the context of healthy or stable individuals across the lifespan in different cultural contexts and settings. Not available for supplemental. Instruction (6.0), Lab (3.0). Equivalent to NSG-163. Requisite courses: Take NSG-1163L (Required, Concurrent).

NSG-1168 Intro to Nursing and Concepts of Health • (3.00 cr.) This course provides an introduction to the concepts of health and wellness for individuals and families, the role of the nurse, and the use of group process strategies to support self-directed learning. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to NSG-1150, NSG-150. Requisite courses: Take NSG-1163 (Required, Concurrent).

NSG-1173 Health and Physical Assessment • (6.00 cr.) This course includes physical health assessment techniques and the practice of basic nursing skills. Practice occurs in the context of healthy or stable individuals and families across the lifespan in different cultural contexts and settings. Not available for supplemental. Instruction (3.0), Lab (4.0). Equivalent to NSG-173. Requisite courses: Take NSG-1163, NSG-1168 and BIO-1160 (Required, Previous). Take NSG-1155 and NSG-1173L (Required, Concurrent).

NSG-1181 Nursing Concepts: Individuals & Families • (6.00 cr.) This course focuses on the history of nursing, role of the nurse in various settings, and nursing as a profession. It includes an introduction to the dimensions of health and wellness of populations across the lifespan in different cultural contexts and settings. Not available for supplemental. Instruction (6.0). Equivalent to NSG-181. Requisite courses: Take NSG-1182 (Required, Concurrent).

NSG-1182 Intro to Nursing: Assessment & Practice • (6.00 cr.) This course provides the foundation for developing therapeutic relationships and introduces the concepts of health assessment and basic nursing skills. The students will have learning opportunities, in the classroom, lab and practice environment. Practice occurs in the context of healthy or stable individuals and families across the lifespan in different cultural contexts and settings. Not available for supplemental. Instruction (12.0). Equivalent to NSG-182. Requisite courses: Take NSG-1181. (Required, Concurrent).

NSG-2250 Health, Illness and Healing I (3.00 cr.) This course provides an introduction to acute and chronic health challenges for adults with varied cultural backgrounds in diverse geographical settings. It integrates concepts of gerontology, health promotion, illness prevention, epidemiology, pathophysiology, and therapeutics. Instruction (3.0).

Equivalent to NSG-2268, NSG-250. Requisite courses: Take NSG-1150, NSG-1163, BIO-1160, BIO-1161, ENG-1150, NSG-1155, NSG-1173, BIO-1162, PSY-1160, SOC-1160; (Required, Previous).

NSG-2254 Maternity and Pediatric Nursing • (3.00 cr.) This course focuses on the experiences of child-bearing and child-rearing families with varied cultural backgrounds in diverse geographical settings. It integrates concepts of health promotion, illness prevention, epidemiology, pathophysiology, and therapeutics. Not available for supplemental. Instruction (3.0). Equivalent to NSG-2255, NSG-255. Requisite courses: Take BIO-1160, BIO-1161, BIO-1162, ENG-1150, NSG-1155, NSG-1163, NSG-1168, NSG-1173, PSY-1160, SOC-1160 (Required, Previous). Take NSG-2293 (Required, Concurrent).

NSG-2263 Medical-Surgical Nursing Practice • (6.00 cr.) Explores increasingly complex nursing skills and provision of basic nursing care for adults with acute and chronic health challenges with varied cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking and clinical judgment to care of adults experiencing illness in acute care situations. Not available for supplemental. Grading: Pass/Fail. Work Experience (6.0). Equivalent to NSG-263. Requisite courses: Take BIO-1160, BIO-1161, BIO-1162, ENG-1150, NSG-1155, NSG-1163, NSG-1168, NSG-1173, PSY-1160, SOC-1160 (Required, Previous). Take NSG-2268 (Required, Concurrent).

NSG-2268 Disruptions in Health I (3.00 cr.) This course provides an introduction to acute and chronic health care challenges for adults with varied cultural backgrounds in diverse geographical settings. It integrates concepts of gerontology, health promotion, illness prevention, epidemiology, pathophysiology, and therapeutics. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to NSG-2250, NSG-250. Requisite courses: Take BIO-1160, BIO-1161, BIO-1162, ENG-1150, NSG-1155, NSG-1163, NSG-1168, NSG-1173, PSY-1160, SOC-1160 (Required, Previous). Take NSG-2263 (Required, Concurrent).

NSG-2269 Rural Nursing Practice (6.00 cr.) Explores increasingly complex nursing skills and provision of basic nursing care for adults with acute and chronic health challenges with varied cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking and clinical judgment to care of adults experiencing illness in acute care situations. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (6.0). Requisite courses: Take NSG-1181, NSG-1182 (Required, Previous). Take NSG-2268 (Required, Concurrent).

NSG-2279 Nursing Issues and Health Care in Canada • (3.00 cr.) This course is an exploration and examination of professional nursing practice concepts and issues. The focus will be on historical and contemporary roles as well as the ethical and legal responsibilities of the registered nurse within the context of the nursing profession and the health care system. Topics include the application of theory to practice, multidisciplinary health care team issues, professional association and union roles. Not available for supplemental. Instruction (3.0). Equivalent to NSG-279. Requisite courses: Take NSG-2263 or NSG-2293 and NSG-2254 or NSG-2268 (Required, Previous).

NSG-2290 Pharmacology and Applied Therapeutics • (3.00 cr.) This course provides an introduction to integrative therapeutic modalities including: conventional (i.e., allopathic), alternative and complementary therapies used in health care and the pathophysiologic, psychologic, energetic, and spiritual basis for these therapies. The nurse's role in promoting quality of life through appropriate use of various treatment modalities and dealing with implications and effects is explored. Instruction (3.0). Equivalent to NSG-290. Requisite courses: Take BIO-1160, BIO-1161, BIO-1162, ENG-1150, NSG-1155, NSG-1163, NSG-1168, NSG-1173, PSY-1160, and SOC-1160. (Required, Previous).

NSG-2293 Maternity and Pediatric Nursing Practice • (6.00 cr.) Explores increasingly complex nursing skills and provision of basic nursing care for women, children, and families from various cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking and clinical judgment to the care of women through the antenatal, labour, delivery, postpartum period and to children experiencing illness in an acute care setting. Not available for supplemental. Grading: Pass/Fail. Work Experience (6.0). Equivalent to NSG-293. Requisite courses: Take BIO-1160, BIO-1161, BIO-1162, ENG-1150, NSG-1155, NSG-1163, NSG-1168, NSG-1173, PSY-1160, SOC-1160 (Required, Previous). Take NSG-2254 (Required, Concurrent).

(ORG) ORGANIZATIONAL BEHAVIOUR

ORG-1148 Office Dynamics • (3.00 cr.) A thorough exposure to the principles and practices related to making a positive contribution to an organization. Includes development of team-work skills, problem-solving and conflict resolution. Includes exposure to the qualities needed to be effective administrative professionals, and understanding of their role in the organization. Instruction (4.0). Equivalent to ORG-148.

ORG-2254 Public Relations • (3.00 cr.) This course deals with the development and delivery of an effective public relations strategy for an organization. The course addresses the development and maintenance of public support. Specific topics include reputation building, strategies, key publics, advertising, media relations, handling of complaints, public designation, developing news releases, and use of audio-visual equipment. Please note: This course is intended for students in the Recreation Facility Operations and Recreation Management programs. Instruction (3.0). Equivalent to ORG-254.

(PCD) POLICE CADET TRAINING

PCD-1112 Cadet Physical Wellness Training • (1.50 cr.) The development of strategies to support mental and physical wellness. Topics include developing resilience, teamwork, mental and physical readiness for duty, post-incident reflection and self-care, and the fostering of healthy relationships. Not available for supplemental. Instruction (1.5).

PCD-1113 Reasonable Officer Response (6.00 cr.) This course prepares learners to correctly apply effective methods for the containment of individuals and scenes when the potential for threat or harm is present. Course topics include tactical communication, search and detainment procedures and the use of agency issue officer safety equipment. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: CR/NCR. Instruction (6.0).

Course Descriptions PCD 1114 - PED 1153

PCD-1114 Law Enforcement Firearms (3.00 cr.) This course emphasizes firearm handling and usage by law enforcement personnel. Topics addressed include safety, maintenance, lawful use of force and the fundamentals of shooting. Policy and procedure with respect to dispatching wildlife will be covered. Learners will participate in field training sessions in order to demonstrate hands-on proficiency relating to the classroom theory. Not available for supplemental. Graded: CR/NCR. Instruction (3.0).

PCD-1115 Emergency Vehicle Operations • (1.50 cr.) This emergency vehicle operations course is provided to front-line police officers and focuses on the fundamentals of vehicle mechanics, vehicle dynamics, braking procedures, collision avoidance and emergency response driving techniques. In addition to policy and procedures for pursuit driving, police officers are instructed on the duties, responsibilities and liabilities associated with the safe handling and operation of an emergency vehicle. This course combines classroom theory with practical applications to provide police officers with the legal and technical skills necessary for the appropriate handling of emergency vehicles. Not available for supplemental. Graded: CR/NCR. Instruction (1.5).

PCD-1121 Client Centered Service (3.00 cr.) The application of foundational knowledge and skills in the area of client centered service. Topics include: interpersonal communication, diversity, bias-free policing practices, policy, process and legislation, and documentation procedures. Not available for supplemental. Instruction (3.0).

PCD-1122 Emerging Public Safety Issues • (1.50 cr.) The application of foundational knowledge and skills when responding to a variety of public safety complaints. Topics include: mental health and substance abuse, prisoner transport, and managing officer mental wellness. Not available for supplemental. Instruction (1.5).

PCD-1131 Criminal Code Offences I (1.50 cr.) The application of procedural law, foundational patrol and investigative skills, interviewing, and scene management in the context of a minor offence. Not available for supplemental. Instruction (1.5).

PCD-1132 Criminal Code Offences II (1.50 cr.) The application of federal and provincial legislation, arrest authorities, and release provisions in the context of a minor offence. Not available for supplemental. Instruction (1.5).

PCD-1133 Provincial Offences • (1.50 cr.) The application of foundational knowledge and skills when investigating provincial offences. Topics include: traffic-related legislation, drug and alcohol enforcement, traffic stops, vehicle search and seizure, and traffic safety initiatives. Not available for supplemental. Instruction (1.5).

PCD-1134 Criminal Code Property Offences • (3.00 cr.) The application of foundational knowledge and skills when investigating a property crime. Topics include: property offences, intelligence and information sharing, seizing and processing evidence as an exhibit, courtroom preparation, procedures, and testimony. Not available for supplemental. Instruction (3.0).

PCD-1135 Crimes Against Persons I (3.00 cr.) The application of foundational knowledge and skills when investigating crimes against persons. Topics include assault and sexual assault, assault victimology, interviewing suspects, and preparing and giving testimony in court. Not available for supplemental. Instruction (3.0).

PCD-1136 Crimes Against Persons II (1.50 cr.) The application of foundational knowledge and skills when investigating crimes against persons. Topics include: domestic violence, supports for victims and officers, and search/seizure authorities. Not available for supplemental. Instruction (1.5).

PCD-1137 Criminal Code Driving Offences • (3.00 cr.) The comprehensive application of knowledge and skills in a complex capstone investigation. Topics include: impaired driving related offences, case law considerations, demands for samples and sobriety testing, and entering documentary evidence into court. Not available for supplemental. Instruction (3.0).

PCD-1141 Economic Crime • (1.50 cr.) The application of foundational knowledge and skills to the investigation of economic crime. Topics include: economic crime, managing uncooperative persons, warned statements, court documentation, and prisoner booking procedures. Not available for supplemental. Instruction (1.5).

PCD-1142 Sudden Death Investigations (1.50 cr.) The application of foundational knowledge and skills when investigating a sudden death. Topics include: scene hazards, sudden death investigative procedures and protocols, notification of next of kin, and mental wellness and self-care. Not available for supplemental. Instruction (1.5).

(PED) PHYSICAL EDUCATION

PED-1123 Academic Success in Athletics I • (1.50 cr.) This course is designed to examine and apply the skills, attitudes and priorities necessary to succeed as a student athlete. Students will understand the complexities of managing post-secondary learning, field experiences and physical conditioning in order to achieve academic success. Not available for supplemental. Instruction (3.0). Equivalent to PED-123.

PED-1130 Outdoor Education • (3.00 cr.) An exploration of a variety of outdoor activities that will be used as a means of improving one's personal fitness level and appreciation of the outdoor natural environment. Basic skills will be covered to give students a better understanding of how to participate in various lifetime outdoor activities. Course is only offered to students from the Nippon Institute of Technology. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0).

PED-1153 Training and Personalized Fitness • (1.50 cr.) This course serves as a preparation for subsequent physical activity courses or for physically demanding professions. The student will be challenged to improve his/her overall fitness level through a variety of fitness training activities. There is an emphasis on wellness and lifestyle modifications, as well as team building in an enjoyable exercise climate. Not available for supplemental. Instruction (3.0). Equivalent to PED-153.

Course Descriptions PED 1155 - PED 2251

PED-1155 Applied Anatomy and Kinesiology • (3.00 cr.) This course is an introduction to human anatomy and physiology. It also introduces students to biomechanics. Not available for supplemental. Instruction (5.0), Lab (1.0). Equivalent to PED-155. Requisite courses: Take PED-1155L (Required, Concurrent).

PED-1157 Health, Wellness and Personal Fitness • (1.50 cr.) Enhances the learners' awareness of lifestyle activities and practices which enable them to remain healthy throughout their careers as Correctional professionals. Topics include wellness and exercise, components of fitness, nutrition, weight management, stress management, and cardiovascular health. Physical wellness is enhanced through a variety of fitness activities. Knowledge gained will be incorporated into a personalized exercise program. Exposure to relevant employment testing is included. Not available for supplemental. Instruction (3.0). Equivalent to PED-157.

PED-1159 Exercise and Healthful Living (3.00 cr.) This course introduces students to physical fitness training principles and wellness theory. Components of lifetime wellness will be emphasized through laboratory experiences. Not available for supplemental. Instruction (3.0), Lab (1.0). Equivalent to PED-159. Requisite courses: Take PED-1159L (Required, Concurrent).

PED-1160 Weight Training and Exercise (1.50 cr.) This course focuses on developing personalized fitness through weight training. Students will learn how to use free weights, machines and other forms of resistance training. They will develop their individual training program through areas of progressive resistance methods, flexibility, nutrition, safe and functional strength training techniques and exercise routines. Not available for supplemental. Instruction (3.0). Equivalent to PED-160.

PED-1162 Intro to Leisure Activities & Sports • (1.50 cr.) This course focuses on a variety of indoor and outdoor activities that will be used as a means of improving students' personal fitness levels. Students will gain an appreciation and understanding of the importance of physical activity, sports skills and other lifestyle behaviours related to fitness topics. Not available for supplemental. Instruction (3.0). Equivalent to PED-162.

PED-1163 Health & Wellness I for Public Safety • (3.00 cr.) An exploration and application of the connection between health and wellness and job performance in public safety careers. A student centred focus on physical health, stress management, culture and community. Personal fitness is practiced and improved through physical training and testing activities. Emphasis is on lifestyle modifications. Not available for supplemental. Instruction (3.0).

PED-1170 Volleyball • (1.50 cr.) An introduction to the fundamentals of volleyball as well as planning and conducting principles which are used in training sessions. Through topics and participation, students will develop skills and team play strategies, sport rules, ethical coaching, player development, practice and match management, components of a try-out camp, and injury prevention. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to PED-170.

PED-1173 Basketball • (1.50 cr.) This course introduces students to the fundamentals of basketball, as well as planning and conducting principles which are used in training sessions. Development of basic skills, strategies, physical conditioning, offensive and defensive team play and the rules will be emphasized. Through participation, students will fine-tune their technical skills and develop their teaching and coaching skills. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to PED-173.

PED-1174 Soccer • (1.50 cr.) Introduction to the fundamentals of soccer skills, strategies, training, team play and coaching. Not available for supplemental. Instruction (3.0). Equivalent to PED-174.

PED-1175 Baseball • (1.50 cr.) This course introduces students to the fundamentals of baseball, as well as planning and conducting principles, which are used in training sessions. Development of basic skills, strategies, physical conditioning, team play and the rules will be emphasized. Through participation, students will fine tune their technical skills and develop their teaching and coaching skills. This course is scheduled to be hosted in conjunction with the Prairie Baseball Academy. Not available for supplemental. Instruction (3.0). Equivalent to PED-175.

PED-1178 Resistance Training • (3.00 cr.) This course examines the theoretical and practical aspects of resistance training. Focus on scientific training principles, biomechanics, programming, and considerations for diverse populations. Not available for supplemental. Instruction (3.0).

PED-1180 Introduction to Coaching (3.00 cr.) An introduction to the theoretical aspects of coaching which can be applied to any sport. Topics include introduction to coaching, ethical coaching, practice planning, nutrition, teaching and learning, sport program design, and mental preparation. Not available for supplemental. Instruction (3.0). Equivalent to PED-180.

PED-1188 Movement Education (3.00 cr.) The examination of the fundamental movement skills of physical literacy and how those skills connect with physical activity, health, and health promotion. Focus on leadership and pedagogical theories, exercise modification, and progression for improvement. Not available for supplemental. Instruction (3.0). Equivalent to PED-188. Requisite courses: Take PED-1159, PED-1178 (Required, Previous).

PED-2250 Defence and Tactics (1.50 cr.) This course provides instruction in defence and control tactics and restraining techniques relating to the correctional environment. Students will be required to maintain physical fitness as a necessary condition for application of tactics. Obstacle course training and testing will be provided. Not available for supplemental. Instruction (3.0). Equivalent to PED-250.

PED-2251 Self Defence and Fitness (1.50 cr.) This course is designed to introduce self-defence tactics to the Criminal Justice Policing students and Conservation Enforcement students. A variety of control tactics that may be necessary in various community enforcement agencies will be taught. A fitness component will be incorporated into the self-defence training (i.e. obstacle course training, running and resistance training). Not available for supplemental. Instruction (3.0). Equivalent to PED-251.

Course Descriptions PED 2252 - PED 2271

PED-2252 Research Methods in Physical Education • (3.00 cr.) A development of the student's concepts of measurement in kinesiology research and the critical evaluation of those concepts. Emphasis will also be placed on other aspects of the research process including terminology, referencing, data analysis and interpretation. Not available for supplemental. Instruction (3.0). Equivalent to PED-252.

PED-2253 Applied Lifestyle Fitness II (1.50 cr.) This course is a continuation of Applied Lifestyle Fitness I. Learners will continue to carry out personalized exercise programs and implement lifestyle, health and wellness modifications. Not available for supplemental. Instruction (1.0). Equivalent to PED-253. Requisite courses: Take PED-1165; (Required, Previous).

PED-2254 Health & Wellness II in Public Safety • (3.00 cr.) The practice of creating communities that encourage wellness. Focus is on mentorship, implementation of strategies for maintaining lifelong health and meeting personal goals for health and wellness. An application of physical health, stress management, culture and community. A focus on physical training and testing to meet job requirements that can be adopted as a long term lifestyle routine. Not available for supplemental. Instruction (3.0). Requisite courses: Take PED-1163. (Required, Previous).

PED-2255 Phys. Readiness Training Public Safety • (3.00 cr.) Prepares students with awareness training and functional movement skills for occupational settings such as public safety. Emphasis on enhancing physical and skill related proficiency and effectiveness in dealing with a physical threat. Basic falling and grappling safety skills reinforcing awareness of occupational stressful situations. Stressors on the job, i.e. shift work, nutrition, cardiovascular health and review of various common injuries. Not available for supplemental. Instruction (1.5), Lab (1.5). Requisite courses: Take PED-2255L (Required, Concurrent).

PED-2256 Prevention & Care of Athletic Injuries • (3.00 cr.) An overview of the scope of practice and the best practices in the prevention and care of athletic injuries. Includes the theory and practice of therapeutic exercise. Application activities provide practical experiences to parallel the theory component. Not available for supplemental. Instruction (3.0). Equivalent to PED-256. Requisite courses: Take BIO-1169 (Required, Previous).

PED-2257 Therapeutic Exercise (3.00 cr.) This course will discuss principles of therapeutic exercise to treat the injured physically active person, to facilitate enhanced recovery and to ensure a safe return to activity. This course will incorporate lecture, demonstration and laboratory experience to instruct principles of therapeutic exercise. Students will be taught different types of stretches and the rationale for stretching. Therapeutic exercise principles and practices related to patient treatment will include stretching, proprioceptive neuromuscular facilitation, and exercise equipment. Students will develop detailed programs related to each stretch/therapeutic exercise. Instruction (1.0), Lab (2.0). Equivalent to PED-257, PED-135. Requisite courses: Take BIO-1146 or BIO-1161 (Required, Previous). Take PED-2257L (Required, Concurrent).

PED-2258 Practicum • (3.00 cr.) The learner will apply skills, knowledge and techniques through various fitness modules acquired from several second-year courses relating to exercise prescription and individual/team program design for the fitness and sports industry. The practicum will be approximately 45-55 hours. Not available for supplemental. Work Experience (3.0). Equivalent to PED-258. Requisite courses: Take PED-2256, PED-2262, PED-2267, COM-1162. (Required, Previous). Take PED-2259 (Required, Concurrent).

PED-2259 Exercise Program Design (3.00 cr.) A comprehensive overview of exercise prescription principles and techniques. Includes theory and practical application of evidence based exercise programming for the general, youth, prenatal, and elderly populations. Documentation, professionalism, and monitoring will also be discussed. Not available for supplemental. Instruction (3.0). Equivalent to PED-259. Requisite courses: Take PED-1188, PED-2262, PED-2267 (Required, Previous).

PED-2260 Biomechanics & Applied Kinesiology • (3.00 cr.) An introduction to the study of biomechanics and its application to human movement analysis. Topics include angular and linear kinematics and kinetics of movement, equilibrium, and structural assessment/correction. Not available for supplemental. Instruction (3.0). Equivalent to PED-260. Requisite courses: Take BIO-1169 (Required, Previous).

PED-2261 Adapted Physical Activity (3.00 cr.) An examination of various psychomotor disabilities. The application of the impact and challenges of physical activity delivery to persons with disabilities. Not available for supplemental. Instruction (3.0). Requisite courses: Take PED-1159, PED-2252 (Required, Previous).

PED-2262 Exercise Physiology (3.00 cr.) This course develops the student's understanding of how the body's physiological systems function during exercise and how these systems adapt to physical training. The influences of environment, nutrition, age and gender on exercise performance will also be discussed. Instruction (2.0), Lab (2.0). Equivalent to PED-262, PED-255. Requisite courses: Take BIO-1169, BIO-1180, PED-2252 (Required, Previous). Take PED-2262L (Required, Concurrent).

PED-2267 Fitness Assessment (3.00 cr.) Development of the student's theoretical knowledge and practical skills in health-related fitness assessment and lifestyle counseling is the main focus of this course. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to PED-267, PED-265. Requisite courses: Take BIO-1169, PED-2252 (Required, Previous). Take PED-2267L (Required, Concurrent).

PED-2271 Advanced Conditioning (3.00 cr.) This course will provide opportunities for students to develop their personal fitness, athletic abilities and performance. Students will develop theoretical and practical experience in designing and instructing high intensity workouts. Safety concerns, exercise equipment, techniques and prescription will be covered. Students will also gain skills in designing periodization plans for both individual and team sports.

Not available for supplemental. Instruction (3.0). Equivalent to PED-271. Requisite courses: Take PED-1178 and PED-2262 (Required, Previous).

PED-2272 Leadership in Physical Education • (3.00 cr.) This course focuses on the relationship between theory and practice and the development of skills required for leadership for coaches and administrators. Leadership styles, organizational theories and personal development will be reviewed in addition to the discussion of current literature, exploring concepts through personal experience, and reflective thinking and cooperative activities. Not available for supplemental. Instruction (3.0). Equivalent to PED-272. Requisite courses: Take PED-1180, PED-1188, or PED-1159 (Required, Previous).

PED-2274 Exercise & Chronic Conditions • (3.00 cr.) An examination of the treatment of various chronic conditions with exercise training. Application of special considerations such as pathophysiology, medications, behaviour change models and injury prevention will be included. Not available for supplemental. Instruction (3.0). Requisite courses: Take PED-2262 and PED-2267 (Required, Previous).

PED-2276 Weight Training and Exercise II • (1.50 cr.) This course focuses on the theoretical concepts pertaining to weight training as well as practical applications using free weights and machines. Students will learn weight training exercises and concepts involved with periodization programming. The course will build on the topics introduced in PED160. Not available for supplemental. Instruction (3.0). Equivalent to PED-276. Requisite courses: Take PED-1160 or PED-1178; (Required, Previous).

PED-2280 Advanced Coaching (3.00 cr.) This course examines advanced theoretical concepts in coaching which can be applied to any sport. Topics include developing athletic abilities, prevention of injury and recovery, coaching and leading effectively, psychology of performance, managing conflict, doping prevention, and the long-term athlete developmental model. Not available for supplemental. Instruction (3.0). Equivalent to PED-280. Requisite courses: Take PED-1180; (Required, Previous).

(PEN) PERIOPERATIVE NURSING

PEN-3390 Prof/Clinical Standards of Periop. Nsg • (3.00 cr.) An introduction to the specialty of perioperative nursing and the exploration of the perioperative experience of the patient. Roles of the surgical team is also highlighted. Not available for supplemental. Instruction (5.0). Equivalent to NSG-3390, NSG-390.

PEN-3393 Implementation of Standards/ Competencies • (6.00 cr.) A continuation of application of the scrub and circulating roles/skills in an authentic clinical setting. Not available for supplemental. Instruction (6.0). Equivalent to NSG-3393, NSG-393. Requisite courses: Take PEN-3390, PEN-3395, PEN-3396. (Required, Previous).

PEN-3394 Perioperative Practicum (3.00 cr.) This comprehensive practicum provides the opportunity to further develop the skills and knowledge of a perioperative nurse under the supervision of a preceptor. This practicum may occur at the Chinook Regional Hospital or alternative rural sites. Out-of-region placements may be considered. Not available for supplemental. Work Experience (3.0). Equivalent to NSG-3394, NSG-394. Requisite courses: Take PEN-3390, PEN-3393, PEN-3395, PEN-3396. (Required, Previous).

PEN-3395 Standards of Scrub and Circulating Role • (3.00 cr.) An exploration of the scrub and circulating roles of perioperative nursing, as identified in the ORNAC Standards. Aseptic technique will be introduced in the context of the perioperative setting. Patient focused nursing assessments and nursing care plans will be introduced. Surgical procedures will be explored along with the factors that have implications to patient outcomes. Not available for supplemental. Instruction (2.0). Equivalent to NSG-3395, NSG-395.

PEN-3396 Competencies of Scrub & Circulating Role • (3.00 cr.) A lab-based introduction to the roles of the scrub and circulating nurses as identified in the ORNAC competencies. The basic skills of the perioperative nurse are demonstrated and practiced in an authentic environment, currently at the Chinook Regional Hospital, but may be opened to additional approved facilities. Not available for supplemental. Instruction (2.0). Equivalent to NSG-3396, NSG-396. Requisite courses: Take PEN-3390, PEN-3395. (Required, Previous).

(PHY) PHYSICS

PHY-0020 Physics 0020 • (6.00 cr.) This algebra based physics course gives an understanding of the properties of the world in and around us. Topics covered are Newton's laws of motion, including two dimensional vector motion and gravity. Waves in general and wave properties are also covered. Students registering for this course should have completed an introductory physics course, SCI-0010 or Science 10 or equivalent. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take PHY-0020L (Required, Concurrent).

PHY-0030 Physics 0030 • (6.00 cr.) An algebra based physics course exploring further into the world around us and into our universe. Topics covered are mechanics (gravitation and momentum), static and current electricity, magnetic fields and electromagnetic induction, properties of the electron, atom and nucleus. Students registering for this course should have completed PHY-0020 and MTH-0020 or equivalents. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take PHY-0030L (Required, Concurrent).

PHY-0085 Physics 0085 • (5.00 cr.) This algebra based physics course gives an understanding of the properties of the world in and around us. Topics covered are Newton's laws of motion, including two dimensional vector motion and gravity. Waves in general and wave properties are also covered. Students registering for this course should have completed an introductory physics course, SCI-0075 or equivalent. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to PHY-085. Requisite courses: Take PHY-0085L (Required, Concurrent).

PHY-0095 Physics 0095 • (5.00 cr.) An algebra based physics course exploring further into the world around us and into our universe. Topics covered are mechanics (gravitation and momentum), static and current electricity, magnetic fields and electromagnetic induction, properties of the electron, atom and nucleus. Students registering for this course should have completed PHY-0085 and MTH-0085 or equivalents. Not available for supplemental. Instruction (4.0), Lab (1.0). Equivalent to PHY-095. Requisite courses: Take PHY-0095L (Required, Concurrent).

Course Descriptions PLT 1152 - PNG 1149

(PLT) PLANT SCIENCE

PLT-1152 Introduction to Botany (3.00 cr.) An introduction to plant evolution and diversity with a focus on angiosperms (flowering plants). Emphasis is on plant anatomy, physiology and the effects of abiotic and biotic factors on plant growth and development. Instruction (2.0), Lab (2.0). Equivalent to PLT-152. Requisite courses: Take PLT-1152L (Required, Concurrent).

PLT-1155 Pasture and Forage Production • (3.00 cr.) A comprehensive introduction to the production and management of pasture and forage crops in Western Canada. Topics include principles of matching forage quality to animal needs under sustainable management. Plant morphology and physiology, palatability, nutrient content, grazing pressure, fertilizer requirements and stocking rate predictions based on pasture quality, animal type and soil climatic zone are discussed. Instruction (2.0), Lab (2.0). Equivalent to PLT-155, PLT-150. Requisite courses: Take PLT-1155L (Required, Concurrent).

PLT-2253 Integrated Pest Management I (3.00 cr.) Integrated pest management in western Canada with a focus on identification of weeds, insects and pathogens, while combining biological, mechanical and chemical control methods. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to PLT-2261, PLT-261, AGR-271. Requisite courses: Take PLT-1152; (Required, Previous).

PLT-2254 Integrated Pest Management II (3.00 cr.) Integrated pest management in agricultural cropping systems including pesticide modes of action and resistance, biological activity and residue tolerance with a focus on sustainable methodology and environmental impact. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to PLT-2263, PLT-263. Requisite courses: Take PLT-1152 PLT-2253; (Required, Previous).

PLT-2260 Special Crops • (3.00 cr.) A study of plant physiology, growth and development, pest control, harvest, and storage. End uses and market value of potatoes, sugar beets, field peas, chickpeas, lentils, beans, fababeans, and other special crops grown in Alberta are examined. A feasibility study on the diversity of special crops will explore the possibility of introducing or increasing production and use in western Canada. Instruction (2.0), Lab (2.0). Equivalent to PLT-260. Requisite courses: Take PLT-1152; (Required, Previous). Take PLT-2260L (Required, Concurrent).

PLT-2261 Weed Identification • (3.00 cr.) This course covers the classification and identification of weeds common to Western Canada. Non-chemical control of weeds is included, along with a preliminary introduction to chemical weed control. Instruction (2.0), Lab (2.0). Equivalent to PLT-2253, PLT-261, AGR-271. Requisite courses: Take PLT-1152; (Required, Previous). Take PLT-2261L (Required, Concurrent).

PLT-2262 Field Crops • (3.00 cr.) An examination of cultural practices for cereal and oilseed crop production, including improved varieties and hybrids common to Western Canada. Topics include plant description, crop staging, seeding strategies, fertilizer requirements, integrated pest management, harvest, storage, crop grading, quality, market and possible end uses. Instruction (2.0), Lab (2.0). Equivalent to PLT-262, AGR-278. Requisite courses: Take PLT-1152. (Required, Previous). Take PLT-2262L (Required, Concurrent).

PLT-2263 Pesticide Application (3.00 cr.) This course prepares the learner to write the Alberta Certified Pesticide Applicators License Examination. The course includes basic information about pesticide regulations and safe, effective pesticide use, federal and provincial pesticide regulations and guidelines. Topics include insect biology, insecticides, weed biology, herbicides, microorganisms, fungi, fungicides, equipment calibration calculations, industrial vegetation, and pests of trees, shrubs, and turf. Upon completion of this course, the learner may apply to write the licensing examination. Instruction (4.0). Equivalent to PLT-2254, PLT-263.

(PNG) PRACTICAL NURSING

PNG-1145 Health and the Practical Nurse (PN Theory I) (3.00 cr.) An introduction to the professional role of the practical nurse within the Canadian health care system. Focus on the nursing process, nursing theories, and wellness in the context of client diversity. Not available for supplemental. Instruction (3.0). Equivalent to NSG-1145, NSG-145. Requisite courses: Take PNG-1146 and PNG-1147 (Required, Concurrent).

PNG-1146 Basic Nursing Skills (PN Practice I) • (3.00 cr.) An introduction to the basic skills needed to support clients/patients with the activities of daily living, while integrating concepts of health promotion, client/patient and worker safety. Not available for supplemental. Instruction (3.0). Equivalent to NSG-1146, NSG-146. Requisite courses: Take PNG-1145 and PNG-1147 (Required, Concurrent).

PNG-1147 Practical Nursing Clinical I (1.50 cr.) An introduction to the application of theory and skills from semester one 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. Not available for supplemental. Grading: Pass/Fail. Work Experience (1.5). Equivalent to NSG-1147, NSG-147. Requisite courses: Take PNG-1145 and PNG-1146 (Required, Concurrent).

PNG-1148 Health and Individuals (PN Theory II) • (3.00 cr.) Course focus will be on health and individuals and the role of the practical nurse. Students will develop an understanding of common personal and environmental factors that threaten health and wellness, as well as the body's protective responses to such conditions. The potential for healthy responses to becoming pathological will be explored. Not available for supplemental. Instruction (3.0). Equivalent to NSG-1148, NSG-148. Requisite courses: Take PNG-1145, PNG-1146, PNG-1147, BIO-1160. (Required, Previous). Take PNG-1149, PNG-1154, PNG-1159 and PNG-1167 (Required, Concurrent).

PNG-1149 Intermediate Nursing Skills (PN Practice II) (3.00 cr.) An intermediate nursing course to develop and enhance existing knowledge and skills related to fundamentals of medication administration and sterile principles in conjunction with clinical nursing skills needed to support clients in meeting more complex health needs.

Course Descriptions PNG 1154 - PNG 2259

Not available for supplemental. Instruction (3.0). Equivalent to NSG-1149, NSG-149. Requisite courses: Take PNG-1145, PNG-1146, PNG-1147, BIO-1160. (Required, Previous). Take PNG-1148, PNG-1154, PNG-1159 and PNG-1167 (Required, Concurrent).

PNG-1154 Practical Nursing Clinical II (3.00 cr.) An application of basic theory and skills from semesters one and two of the Practical Nursing program in a long-term care setting. Focus is on basic care, health assessment, medication administration and communication with clients experiencing chronic health challenges. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (3.0). Equivalent to NSG-1154, NSG-154. Requisite courses: Take PNG-1145, PNG-1146, PNG-1147, BIO-1160, COM-1162 and ENG-1150. (Required, Previous). Take PNG-1148, PNG-1149, PNG-1159 and PNG-1167 (Required, Concurrent).

PNG-1159 Pharmacology • (3.00 cr.) The students will apply theoretical and practical knowledge of therapeutic drugs, their effects on the body, and nursing responsibilities related to medication administration. Not available for supplemental. Instruction (3.0). Equivalent to NSG-1159, NSG-159. Requisite courses: Take BIO-1160; (Required, Previous).

PNG-1167 Health Assessment • (3.00 cr.) Focus is on developing knowledge of the core principles and skills needed for holistic health assessment through opportunities for theoretical and practical application. Not available for supplemental. Instruction (2.0), Lab (2.0). Equivalent to NSG-1167, NSG-167. Requisite courses: Take PNG-1145, PNG-1146, PNG-1147, BIO-1160. (Required, Previous). Take PNG-1148, PNG-1149, PNG-1154, PNG-1159 and PNG-1167L (Required, Concurrent).

PNG-2251 Health and Illness (PN Theory III) • (3.00 cr.) Focus is on health and illness and the role of the practical nurse in promoting health in clients with common acute health challenges. Participation in this process-oriented course will develop critical thinking skills needed to determine nursing assessment and management priorities based on health data. Not available for supplemental. Instruction (3.0). Equivalent to NSG-2251, NSG-251. Requisite courses: Take PNG-1167, PNG-1148, PNG-1149, PNG-1159, BIO-1161. (Required, Previous). Take PNG-2252, PNG-2253 and PNG-2256 (Required, Concurrent).

PNG-2252 Senior Nursing Skills (PN Practice III) • (3.00 cr.) Focus is on developing nursing skills commonly used in acute and complex settings, while reinforcing theories and practical applications learned in semesters one and two. Not available for supplemental. Instruction (3.0). Equivalent to NSG-2252, NSG-252. Requisite courses: Take PNG-1148 PNG-1149 PNG-1159 PNG-1154 PNG-1167 BIO-1161. (Required, Previous). Take PNG-2251, PNG-2253, PNG-2254 and PNG-2256 (Required, Concurrent).

PNG-2253 Practical Nursing Clinical III (3.00 cr.) An application of theory and skills from semesters one, two and three from the Practical Nursing program in an acute care setting. Emphasis is on integrating complex skills and mental health concepts in the care of clients experiencing acute and chronic health challenges. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (3.0). Equivalent to NSG-2253, NSG-253. Requisite courses: Take PNG-1148 PNG-1149 PNG-1154 PNG-1159 PNG-1167 BIO-1161; (Required, Previous). Take PNG-2251, PNG-2252, PNG-2254 and PNG-2256 (Required, Concurrent).

PNG-2254 Mental Health Nursing (3.00 cr.) Focus is to gain knowledge of common mental health challenges and illnesses. Major theory includes promotion and management of mental health disorders through the life cycle and within various healthcare settings. Not available for supplemental. Instruction (3.0). Equivalent to PSY-2251, PSY-251. Requisite courses: Take PNG-1148 PNG-1149 PNG-1154 PNG-1159 PNG-1167 BIO-1161; (Required, Previous). Take PNG-2251, PNG-2252, PNG-2253 and PNG-2256 (Required, Concurrent).

PNG-2255 Professional Growth (3.00 cr.) An exploration of the more advanced roles for the professional practical nurse as interprofessional team member, mentor, manager, and communicator. Emphasis is on leadership, ethical decision making, and career readiness. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to HTH-2255, HTH-255. Requisite courses: Take PNG-2251 PNG-2252 PNG-2253 PNG-2254 PNG-2256 PSY-1170. (Required, Previous). Take PNG-2257, PNG-2259, PNG-2260 and PNG-2267 (Required, Concurrent).

PNG-2256 Pathophysiology • (3.00 cr.) Students will have the opportunity to gain knowledge and understanding of physical pathology that threatens health status. The course will provide a sound theoretical base for students within a variety of health care settings. Not available for supplemental. Instruction (3.0). Equivalent to NSG-2256, NSG-256. Requisite courses: Take PNG-1159, PNG-1167, BIO-1160, BIO-1161. (Required, Previous). Take PNG-2251 and PNG-2252 (Required, Concurrent).

PNG-2257 Health and Families (PN Theory IV) • (3.00 cr.) Course focus will be on health and families and the role of the practical nurse in promoting health and wellness during child-bearing and child-rearing years. Major theory includes ante-partum,intra-partum, and post-partum nursing process and practice. Care of newborns, infants, children and teens in health and illness is explored. Not available for supplemental. Instruction (4.0). Equivalent to NSG-2257, NSG-257. Requisite courses: Take PNG-2251 PNG-2252 PNG-2253 PNG-2254 PNG-2256 PSY-1170. (Required, Previous). Take PNG-2259, PNG-2260 and PNG-2267 (Required, Concurrent).

PNG-2259 Practical Nursing Clinical IV (6.00 cr.) The cumulative application of theory and skills developed throughout the Practical Nursing program in acute care settings. Emphasis is on integrating family health concepts and leadership into client care and developing entry level competency in full scope of practice skills. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (6.0). Equivalent to NSG-2259, NSG-259. Requisite courses: Take PNG-2251 PNG-2252 PNG-2253 PNG-2254 PNG-2256 PSY-1170. (Required, Previous). Take PNG-2255, PNG-2257, PNG-2260 and PNG-2267 (Required, Concurrent).

Course Descriptions PNG 2260 - PSY 1140

PNG-2260 Full Scope of Practice Skills (PN Practice IV) • (3.00 cr.) A further application towards building skills for competent nursing practice. Focus is on the nursing process, theory, systems and principles necessary to become a practical nurse. Theory and practice will be provided to enable students to reach competence in their full scope of practice. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Requisite courses: Take PNG-2251, PNG-2252, PNG-2253, PNG-2254, PNG-2256, PSY-1170. (Required, Previous). Take PNG-2257, PNG-2259, PNG-2267. (Required, Concurrent).

PNG-2267 Community Nursing (3.00 cr.) The focus of this course is on developing nursing knowledge and skills needed to provide care to a variety of individuals, families and groups in the community who are at various positions on the age and health continuum. Students will explore the determinants of health and concepts of holistic care that support health promotion and disease prevention. Not available for supplemental. Instruction (3.0). Equivalent to NSG-2267, NSG-267. Requisite courses: Take PNG-2251 PNG-2252 PNG-2253 PNG-2254 PNG-2256 PSY-1170. (Required, Previous). Take PNG-2257, PNG-2259 and PNG-2260. (Required, Concurrent).

PNG-2277 Comprehensive Practicum (6.00 cr.) A final comprehensive practicum placement for students to apply knowledge, skills, and attitudes gained throughout their educational experience under the guidance of a preceptor. Clinical practice will encompass entry level full scope of practice skills in a variety of settings. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (6.0). Equivalent to NSG-2277, NSG-277. Requisite courses: Take PNG-2255, PNG-2257, PNG-2259, PNG-2260, PNG-2267 and SOC-1167. (Required, Previous).

(PRS) PRESENTATIONS

PRS-1155 Speech • (3.00 cr.) Students will learn and practice the extemporaneous approach to public speaking. Speeches will be planned, prepared, practiced and delivered with the aid of brief notes. Impromptu speaking will also be addressed. The basic objective of the course is to develop skills in oral communication and presentations. Not available for supplemental. Instruction (3.0). Equivalent to PRS-155, SPH-155.

PRS-1172 Effective Presentation and Speech (3.00 cr.) An important component in the development of positive relationships between criminal justice professionals and their communities is communication. The ability to present information in a confident and professional manner is an important career skill. This course has been designed specifically for future criminal justice personnel to teach them how to develop and deliver both individual and group presentations in preparation for their leadership roles. Not available for supplemental. Instruction (3.0). Equivalent to PRS-172, CJP-172.

(PSC) POLITICAL SCIENCE

PSC-1150 Local Government • (3.00 cr.) This course provides students with an introduction to politics at the local level including the local political process, public policy formulation and public opinion. Municipal political and governmental institutions will be examined within the context of intergovernmental relations and the Canadian federal system of government. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to PSC-150.

PSC-1161 Introduction to Politics (3.00 cr.) An introduction to the study of politics through the examination and analysis of government institutions, concepts of political inquiry, ideologies, political systems, and political processes. Not available for supplemental. Instruction (3.0). Equivalent to PSC-161.

PSC-1165 Canadian Government (3.00 cr.) This course provides a structural overview of the federal system of government in Canada by way of analysing its major institutions. The course examines the Constitution and its implications for modern life, federal/provincial jurisdiction, the dynamics of changing relationships between levels of government, and the basics of political parties, the media, bureaucracy and the judicial system will be examined. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to PSC-165.

PSC-2250 Parties and Elections (3.00 cr.) The examination of the development and transformations of Canadian political parties, electoral systems, public opinion, political participation and citizenship within the context of changing representational models and demands. Not available for supplemental. Instruction (3.0). Equivalent to PSC-250. Requisite courses: Take any one of PSC-1161, PSC-1165, PSY-1160, HIS-2265 or STS-2270. (Required, Previous).

PSC-2260 International Relations (3.00 cr.) This course explores theories of world politics, and structures and processes of international relations and foreign policy. Students will be introduced to major international issues in world politics including globalization, international conflict, economic alliances, terrorism, human rights and global security. Not available for supplemental. Instruction (3.0). Equivalent to PSC-260. Requisite courses: Take any one of ENG-1150, HIS-1170, HUM-1155, PSC-1161 or PSC-1165; (Required, Previous).

PSC-2280 Political Philosophy (3.00 cr.) This course provides students with an introduction to western political philosophy and the sub-discipline of political theory by focusing on the quest for the just political regime. Concepts of citizenship, rights, obligations, and the role of the state will be analyzed by introducing students to the great texts of classical, medieval and modern political philosophy. Not available for supplemental. Instruction (3.0). Equivalent to PSC-280. Requisite courses: Take any one of PSC-1161, PSC-1165, HIS-1170, HUM-1150, HUM-1155, HUM-1190, PSY-1160 or SOC-1160; (Required, Previous).

(PSY) PSYCHOLOGY

PSY-1140 Psychology and Life (3.00 cr.) This course examines everyday topics related to psychology and personal growth. These topics include the self, personality, human learning, wellness, psychological disorders, the family, parenting, and life transitions.

Course Descriptions PSY 1160 - PSY 2275

This course will not count as part of a concentration in psychology and is not a prerequisite for any other course in psychology. Not available for supplemental. Instruction (3.0). Equivalent to PSY-140.

PSY-1160 Introduction to Psychology (3.00 cr.) A basic understanding and overview of the field of psychology focusing on the scientific method, biological factors, cognitive processes, learning, memory, intelligence, motivation, personality and social psychology. Developmental factors of the lifespan are explored along with the definition and treatment of psychological disorders. Not available for supplemental. Instruction (3.0). Equivalent to PSY-160.

PSY-1168 Sport and Exercise Psychology • (3.00 cr.) An introduction to the applied practice of the psychosocial concepts of human behaviour as it relates to physical activity, sport, and health. Concepts affecting both groups and individuals will be addressed. Not available for supplemental. Instruction (3.0).

PSY-1170 Human Development Across the Lifespan • (3.00 cr.) An introduction to the study of human development across the lifespan. Major theories of development are presented with emphasis on the sequence of psychological and social growth. Developmental changes in the physical, emotional, cognitive, and social areas are examined. Not available for supplemental. Instruction (3.0). Equivalent to PSY-170.

PSY-1171 Child Growth and Development • (3.00 cr.) This course covers the growth and development of children from infancy to middle childhood. Students will have the opportunity to apply major theories of child development to the understanding of early childhood growth and development. The physical, social, emotional, language, cognitive, moral, and intellectual development of the young child will be examined. Not available for supplemental. Instruction (3.0). Equivalent to PSY-171.

PSY-1177 Psychology of Aging (3.00 cr.) This course provides an orientation to the psychological changes that occur through adulthood and old age. Students will be introduced to basic theoretical models, research methods, and current information. A major goal is to contrast existing myths about adult development with the best available empirical evidence to separate myths from realities. Included is a practical emphasis on measures that may be used to successfully prepare for, or adapt to, the psychological changes of aging. Not available for supplemental. Instruction (3.0). Equivalent to PSY-177.

PSY-1179 Adolescent Development (3.00 cr.) This course covers basic knowledge of adolescent biological, cognitive, and psychosocial development. The major theories of adolescent development are presented. The important development tasks of this life stage are taught through the interrelationship of physical, intellectual, emotional, and social factors in adolescent development. Not available for supplemental. Instruction (3.0). Equivalent to PSY-179. Requisite courses: TAKE PSY-1160 OR PSY-1170; (Required, Previous).

PSY-1191 The Developing Brain (3.00 cr.) An introduction to the growth and development of the brain from conception to middle childhood. Content focuses on current knowledge of neurological development and how it affects physical, emotional, cognitive, and social development during this age period. Emphasis is on how early experiences change a child's developmental outcomes and ways to support early brain development. Not available for supplemental. Instruction (3.0). Requisite courses: Take PSY-1171 (Required, Previous).

PSY-2250 Educational Psychology (3.00 cr.) This course applies the principles of psychology to the teaching learning process within the classroom. Current theories and research in education will be discussed. Topics such as cognitive and moral development, principles of learning, motivation and social cognition will be covered. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to PSY-250, PSY-175. Requisite courses: Take PSY-1170; (Required, Previous).

PSY-2253 Child Psychopathology (3.00 cr.) This course will provide students with the opportunity to examine, on an introductory basis, the origins and symptoms of the various emotional and behavioural difficulties experienced by young people. Emphasis will be placed on the causes, symptoms, and treatment of organic, social/emotional, developmental, and learning disorders. The information and knowledge obtained in this course will assist the student in understanding the dynamics of mental health and mental illness in our society. Not available for supplemental. Instruction (3.0). Equivalent to PSY-253. Requisite courses: Take PSY-1160 or PSY-1170 (Required, Previous).

PSY-2255 Psychology of Sports (3.00 cr.) The exploration of how psychology is related to sport. A focus on understanding the influence of emotional controls, learning theory, social psychology, and personality theory and how they can be applied to development of athletes and coaches at various levels. Not available for supplemental. Instruction (3.0). Equivalent to PSY-255. Requisite courses: Take PSY-1160, PSY-1170, or PSY-1168. (Required, Previous).

PSY-2260 Abnormal Psychology (3.00 cr.) This course examines the developmental processes and the manifestations/characteristics/symptoms of the range of the major types o psychopathology. The current Diagnostic & Statistical Manual (DSM) will be used as a basis for classification of abnormal behaviour. Students will be expected to analyse pathological behaviour from a variety of perspectives and related treatment approaches. Service Learning opportunity may be available. Not available for supplemental. Instruction (3.0). Equivalent to PSY-260, PSY-200. Requisite courses: Take PSY-1160 or PSY-1170 (Required, Previous).

PSY-2270 Introduction to Personality Theory • (3.00 cr.) This course will address aspects of both the historical and current theories of personality development. These include theory, testing, assessment and applied research. Not available for supplemental. Instruction (3.0). Equivalent to PSY-270. Requisite courses: Take PSY-1160 or PSY-1170 (Required, Previous).

PSY-2275 Introduction to Forensic Psychology • (3.00 cr.) This course examines the issues and controversies in crime and justice from a psychological perspective. Human behaviour and criminal patterns are linked to deepen the understanding of crime and criminals in our society. The development of the criminal mind in a societal context will be explored. Not available for supplemental. Instruction (3.0). Equivalent to PSY-275. Requisite courses: Take PSY-1160 or PSY-1170 (Required, Previous).

Course Descriptions PSY 2277 - RRM 2252

PSY-2277 Addictions Treatment (3.00 cr.) This course will examine a variety of theories, models and techniques concerning the identification, assessment and treatment of addictions. The course will provide students with the opportunity to openly examine topics in the area of addictive and/or excessive behaviours and to consider how these issues can be addressed from various perspectives. Not available for supplemental. Instruction (3.0). Equivalent to PSY-277.

PSY-2280 Social Psychology • (3.00 cr.) Your life is social. Normal everyday human life involves interacting with other people. This course considers the scientific study of the relationships between social thought, social behavior, and social situations. We will consider issues that are central to our social interactions such as social perception, attitude change, conformity and obedience, aggression, pro-social behavior, and attraction. Not available for supplemental. Instruction (3.0). Equivalent to PSY-280. Requisite courses: Take PSY-1160 or PSY-1170; (Required, Previous).

PSY-2290 Brain and Behaviour (3.00 cr.) This course explores the biological basis of behaviour. Topics include: How the nervous system functions, how drugs and hormones influence the brain and behaviour, and, at a neurological level, how we perceive the world, how we respond to the world, the causes of emotion, what happens when we sleep, how we learn and remember, and what happens when our brain misbehaves. Not available for supplemental. Instruction (3.0). Equivalent to PSY-290. Requisite courses: Take PSY-1160, PSY-1170, or PSY-1191 (Required, Previous).

PSY-2299 Independent Study in Psychology • (3.00 cr.) This is a learning experience where individual students pursue a topic related to psychology in-depth. Students are responsible for working with their instructor to develop an outline of the project they wish to undertake. Further information may be obtained from the Program Chair. Instruction (3.0). Equivalent to PSY-299. Requisite courses: Take any one of PSY-2253, PSY-2255, PSY-2260, PSY-2270, PSY-2275, PSY-2280, OR PSY-2290; (Required, Previous).

PSY-3350 The Psychology of Criminal Behaviour • (3.00 cr.) The application of psychological research to the understanding, prediction, and treatment of criminal behaviour. A study of psychological theories of crime leads to a focus on the role of psychological factors and resulting disorders in violence and criminal behaviour. Topics include the influence of psychology on witness and jury behaviour, police investigation and interviewing as well as the issue of mental competence. Not available for supplemental. Instruction (3.0).

PSY-3355 Violence & Criminal Behaviour • (3.00 cr.) Students explore the roots and manifestations of violence in Canadian society, and the implication of violence for the justice system. The management of violent offenders, on an individual basis and in gangs, is the primary focus of this course. Techniques for diffusing violent behaviour are also learned and applied in practice. Instruction (3.0). Equivalent to PSY-355, COR-355.

(RDG) READING

RDG-0075 Developing Reading Efficiency • (5.00 cr.) A development of skills in effective reading and clear thinking. Topics covered include a variety of essential reading skills, such as identifying main ideas and supporting details, understanding patterns of organization, making inferences, and evaluating arguments. The related skills of outlining, mapping, and summarizing will also be introduced. Students registering in this course should have successfully completed ENG-0063 or have been placed at this level through an assessment test. Not available for supplemental. Instruction (5.0). Equivalent to RDG-075.

RDG-0085 Reading 0085 • (5.00 cr.) An intermediate course to help students improve their general level of reading in preparation for further academic studies. Topics covered are the reading process, vocabulary development, main ideas and supporting details, patterns of organization, inferences, fact and opinion, visual aids, and note-taking. Students registering in this course should have successfully completed RDG-0075 or equivalent. Not available for supplemental. Instruction (5.0).

RDG-0096 College Reading Essentials (5.00 cr.) A preparation for the demands of further academic studies and to improve reading comprehension levels so that students can meet post-secondary program admission requirements. Topics covered are learning style and learning strategies, taking notes in class, understanding paragraphs, following thought patterns, evaluating the author's message and techniques, expanding vocabulary, reading graphics and evaluating visual and online sources, preparing for and taking exams, and improving reading rate and flexibility. Students registering in this course should have successfully completed RDG-0085 or equivalent. Not available for supplemental. Instruction (5.0). Equivalent to RDG-096.

(RRM) RENEWABLE RESOURCE MANAGEMENT

RRM-1197 Spatial Information Techniques • (3.00 cr.) An introductory, skills based approach to reading, interpreting and measuring various forms of spatial information. Emphasis is placed on the interpretation, measurement and analysis of topographic maps and aerial and satellite imagery. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take RRM-1197L. (Required, Concurrent).

RRM-2250 Grassland and Forest Resources • (3.00 cr.) A study of grassland and forest ecosystems with an emphasis on ecological processes, plant succession, responses to disturbances, habitat classification, and integrated management strategies. Rangeland, forest and riparian health assessments are studied and practiced along with woody and herbaceous plant identification and vegetation inventory procedures. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take BIO-1167, RRM-1197 (Required, Previous). Take RRM-2250L (Required, Concurrent).

RRM-2252 Water Resources • (3.00 cr.) This course presents introductory concepts of hydrology, streamflow mechanics and hydrometric survey techniques. Major topics include watershed and hydrograph analysis, dynamics of open-channel flow, and flow measurement by wading, from bridges and cableways, boats and beneath ice cover. Applied problems are stressed in lab and field assignments.

Students will use spreadsheets and specialized computer software in completing these assignments. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-1158, RRM-158, RRM-255. Requisite courses: Take RRM-2252L. (Required, Concurrent).

RRM-2253 Soil Resources • (3.00 cr.) This course covers the factors controlling soil formation in Western Canada and their application to the Canadian Soil Classification system, grassland communities, forest regions and habitat types. It will also cover physical and chemical properties of soils in addition to soil water relationships, nutrient supply and soil degradation in the management of selected natural resources. Field and lab skills are emphasized. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-1153, RRM-153, RRM-253. Requisite courses: Take RRM-2253L. (Required, Concurrent).

RRM-2256 Rangeland Management (3.00 cr.) A study of rangeland habitat ecological concepts including ecological site classification, succession models, vegetation management techniques and plant physiological responses to disturbance. Additional skills based focus on the application of vegetation inventory techniques and rangeland and riparian health assessments. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-256, RRM-254. Requisite courses: Take BIO-1167, BIO-1170, BIO-1172 (Required, Previous). Take RRM-2256L (Required, Concurrent).

RRM-2258 Principles of Wildlife Biology (3.00 cr.) An examination of the various concepts and factors that affect wildlife populations and management. Additional emphasis will be placed on identification of select wildlife species from western Canada. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-258. Requisite courses: Take BIO-1168, BIO-1172 (Required, Previous). Take RRM-2258L (Required, Concurrent).

RRM-2259 Principles of Fishery Science (3.00 cr.) An introduction to the various concepts and factors that affect fishery populations and management. Emphasis will be placed on lake and stream survey techniques, identification skills and biology of important fish species in western Canada. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-259. Requisite courses: Take BIO-1168, BIO-1172 (Required, Previous). Take RRM-2259L (Required, Concurrent).

RRM-2264 Forest Management (3.00 cr.) A study of sustainable forest resource management practices with emphasis on identification, inventory and assessment methods, ecosystem and landscape level processes, silvicultural systems, harvest planning and woodland operations. Lab and field practice will focus on the technical aspects of forestry planning, inventory and assessment and operations. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-264. Requisite courses: Take BIO-1167, BIO-1172, RRM-1197 (Required, Previous). Take RRM-2264L (Required, Concurrent).

RRM-2291 Wildlife Habitat Management (3.00 cr.) An examination of the rationale and techniques used to describe, maintain, enhance, and develop wildlife habitats. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-3386, RRM-386. Requisite courses: Take BIO-1172, RRM-2258 (Required, Previous). Take RRM-2291L. (Required, Concurrent).

RRM-2293 Fish Habitat Management (3.00 cr.) An examination of fish habitat characteristics of lotic (stream) and lentic (lake) ecosystems. Emphasis is on fish species habitat requirements, hydological characteristics of streams, impacts of habitat degradation in streams and lakes and possible restoration techniques. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-3389, RRM-389. Requisite courses: Take BIO-1172, RRM-2259 (Required, Previous). Take RRM-2293L. (Required, Concurrent).

RRM-2295 Hydrogeology • (3.00 cr.) An examination and analysis of the processes influencing the occurrence, properties and movement of groundwater. A skills based approach is used to select and set-up test well sites, collect groundwater samples, assess groundwater properties, complete computer assisted analysis and interpret the results. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-295. Requisite courses: Take RRM-2295L (Required, Concurrent).

RRM-2298 Conservation Biology (3.00 cr.) This course examines the scientific basis for the management and protection of biological diversity. Important topics will include habitat fragmentation, minimum viable population analysis, the role of genetic variability, metapopulation concepts and community-level processes. Practical applications are addressed using case studies that incorporate the principles of ecosystem management. Not available for supplemental. Instruction (3.0). Equivalent to RRM-298. Requisite courses: Take BIO-1172 (Required, Previous).

RRM-2299 Fire Management • (3.00 cr.) A study of wildfire management with emphasis on fire weather, fire behaviour, wildlife control, fire ecology, and the use of fire as a prescriptive management tool. Lab and field practice will focus on the technical aspects of fire management planning and operations. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-299, RRM-294. Requisite courses: Take BIO-1167 BIO-1172 RRM-1197 (Required, Previous). Take RRM-2299L (Required, Concurrent).

RRM-3350 Integrated Resource Management • (3.00 cr.) This course examines the complex and often competing uses of natural resources. It will involve the basic concepts of integrated resource management, sustainable development, public process, resource planning structure, and alternative dispute resolution. Not available for supplemental. Instruction (3.0). Equivalent to ENV-3350, ENV-350.

RRM-3368 Wildlife Field Techniques (3.00 cr.) This course covers the conservation of wildlife in relation to management strategies. The design and application of field techniques to determine demographic parameters, food habits, and habitat use are presented for a wide range of species typical of Western Canada during laboratory and field exercises. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-368. Requisite courses: Take RRM-2258 (Required, Previous). Take RRM-3368L (Required, Concurrent).

Course Descriptions RRM 3369 - SCI 0055

RRM-3369 Fishery Management Techniques • (3.00 cr.) This course covers the basics involved with fisheries management, including sampling planning; care and handling of sampled organisms; passive and active fish capture methods; sampling with toxicants; tagging and marking; acoustic assessment; recreational fisheries; length; weight; diet and structural indices of fish. Students incorporate these teachings formally into a fisheries evaluation project and report. Biotelemetry, electrofishing and small-boat safety are often included in the hands-on training and field work. Not available for supplemental. Instruction (3.0), Lab (2.0). Equivalent to RRM-369. Requisite courses: Take RRM-2259 (Required, Previous). Take RRM-3369L (Required, Concurrent).

RRM-4454 Restoration Ecology (3.00 cr.) This course presents theory and practice relevant to restoration ecology. The content emphasizes ecosystem functioning, spatial and temporal factors, successional trajectory and alternative states, disturbance ecology, exotic species, ecosystem services valuation, novel ecosystems, and planning and design of ecological restoration projects. Applied components include plant materials collection techniques and plant propagation methods. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take RRM-4454L (Required, Concurrent).

RRM-4460 Species At Risk Management (3.00 cr.) This course explores the reasons for species endangerment, and the conservation activities that are underway for species at risk. Analyses are carried out of species at risk status processes, endangered species policy and legislation in Canadian jurisdictions. A review is made of strategies for recovering species at risk and implementation projects. Accompanying labs emphasize identification of priority western Canadian species at risk, the threats those species face, and recovery actions that are underway. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take RRM-4460L (Required, Concurrent).

RRM-4463 Population Ecology and Management • (3.00 cr.) This course will investigate the structure and dynamics of population systems, population limitation, predation, competition and dispersal. It will also cover topics in population ecology such as population dynamics and viability. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take RRM-4463L. (Required, Concurrent).

(RSR) RESEARCH – APPLIED

RSR-1160 Research and Writing for New Media • (3.00 cr.) An introductory course to professional research and writing for new media projects. Focus is on developing interesting, clear and original content as well as adapting information from other sources. Instruction (3.0). Equivalent to RSR-160, APR-160, CAP-151.

RSR-2254 Research Methodology Health/SocSciences • (3.00 cr.) An introduction to social sciences research and its relevance to health and social sciences. Qualitative, quantitative and mixed methods of research methodologies are explored. Students will be introduced on how to undertake a literature search and how to critically review literature to provide the foundational knowledge to guide evidence-informed practice. Students will have the opportunity to explore research methods and considerations relevant to their professional practice through the class assignments. Not available for supplemental. Instruction (3.0).

RSR-2257 Video Graphics and Compositing • (3.00 cr.) An intermediate hands-on application of graphic design, animation and video editing concepts. Focus will be on using industry-standard tools and processes to produce creative video compositions and to produce a design plan to address a client's needs. Instruction (5.0). Equivalent to RSR-2256, RSR-256. Requisite courses: Take CMM-1156. (Required, Previous).

RSR-2265 Applied Research II • (1.50 cr.) The continuation of Statistics and Applied Research I will provide opportunities for students to execute the research proposal they have defended in the previous semester. The main activities include a critical review of scholarly literature, how to understand and resolve ethical dilemmas, collect, analyze, and interpret data, make research conclusions, prepare a comprehensive research report following APA guidelines and present and defend the research findings. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to RSR-2251, RSR-251. Requisite courses: Take STS-2260 (Required, Previous).

RSR-2270 Interactive Project (Core Integration) • (3.00 cr.) Applying existing and new skills, students will plan and manage an interactive media project. Emphasis will be on documenting the process and technical challenges, as well as researching solutions. The process and final project will be presented. Not available for supplemental. Instruction (3.0). Equivalent to RSR-1170, RSR-170.

(SCI) SCIENCE

SCI-0010 Science 0010 • (6.00 cr.) An introduction to basic science involving three distinct yet interrelated modules which include basic chemistry, physics and biology. Topics covered are comparable to what is covered in Alberta Education Science 010. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take SCI-0010L (Required, Concurrent).

SCI-0043 Science I • (3.00 cr.) This science course is designed for students whose needs, interests and abilities focus on basic science understanding. This course sequence emphasizes understanding of the practice of scientific inquiry by examining celestial science, geology, and ecology. Not available for supplemental. Instruction (3.0). Equivalent to SCI-043.

SCI-0048 Science II • (3.00 cr.) This science course is designed for students whose needs, interests and abilities focus on basic science understanding. This course sequenc emphasizes understanding of forms of energy, cellular biology and human body systems. Not available for supplemental. Instruction (3.0). Equivalent to SCI-048.

SCI-0055 Science III • (3.00 cr.) This course is designed to apply the advanced literacy skills taught in LAR 055 (Language Arts III) and the advanced numeracy skills taught in MTH 055 (Math

Fundamentals III) to the study of foundational science concepts, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (3.0). Equivalent to SCI-055.

SCI-0075 Science 0075 • (5.00 cr.)
An introduction to basic science involving three distinct yet interrelated modules, which include basic chemistry, physics and biology. Topics covered are comparable to what is covered in Alberta Education Science 010. Not available for supplemental. Instruction (5.0), Lab (1.0). Requisite courses: Take SCI-0075L (Required, Concurrent).

(SGV) STUDENT GOVERNMENT

SGV-101 Student Government • (1.00 cr.)
This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (16.0).

SGV-102 Student Government • (2.00 cr.)
This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (32.0).

SGV-103 Student Government • (3.00 cr.)
This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (48.0).

SGV-104 Student Government • (2.00 cr.)
This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (32.0).

SGV-1101 Student Government
(1.50 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a student representative, after serving and fulfilling the requirements of the position in their first term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (1.5).

SGV-1102 Student Government
(1.50 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a student representative, after serving and fulfilling the requirements of the position in their second term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (1.5).

SGV-1111 Student Government
(3.00 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a Vice President, after serving and fulfilling the requirements of the position in their first term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (3.0).

SGV-1112 Student Government
(3.00 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a Vice President, after serving and fulfilling the requirements of the position in their second term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (3.0).

SGV-1122 Student Government
(6.00 cr.) This course is assigned to a student elected to serve on the Students' Council of Lethbridge College as President, after serving and fulfilling the requirements of the position in their first term (Fall and Winter) on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic year. Independent Study (6.0).

SGV-201 Student Government
(2.00 cr.) This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (32.0).

SGV-203 Student Government • (1.00 cr.)
This course is limited to those students who have been elected to serve on the Students' Council of Lethbridge College. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within one academic year. Further details should be obtained from the College administrator of the program in which students are enrolled. Independent Study (16.0).

SGV-2103 Student Government
(1.50 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a student representative, after serving and fulfilling the requirements of the position in their third term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (1.5).

SGV-2104 Student Government
(1.50 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a student representative, after serving and fulfilling the requirements of the position in their fourth term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (1.5).

Course Descriptions SGV 2113 - SOC 2273

SGV-2113 Student Government
(3.00 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a Vice President, after serving and fulfilling the requirements of the position in their third term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (3.0).

SGV-2114 Student Government
(3.00 cr.) This course is assigned to students elected to serve on the Students' Council of Lethbridge College as a Vice President, after serving and fulfilling the requirements of the position in their fourth term on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic term. Independent Study (3.0).

SGV-2124 Student Government
(6.00 cr.) This course is assigned to a student elected to serve on the Students' Council of Lethbridge College as President, after serving and fulfilling the requirements of the position in their second term (Fall and Winter) on council in this position. Recognition is given for educational experience gained and for time spent during the process of student government activities for a period within an academic year. Independent Study (6.0).

(SOC) SOCIOLOGY

SOC-1153 Introduction to Women's Studies • (3.00 cr.) This course is an introduction to the interdisciplinary field of women's studies through a critical feminist examination of women's embodied lives around the world, with both historical and contemporary examples drawn from a wide variety of cultures. This course will critically examine such issues as violence against women, women and the law, women and globalization, the feminization of poverty, sexuality and gender, family life, reproductive rights, women and religion, and cultural conceptions of body image. The course aims to sharpen students' critical awareness of how gender operates in a variety of institutional and cultural contexts as well as in their own lives, giving them an opportunity to participate meaningfully in social change. Not available for supplemental. Instruction (3.0). Equivalent to SOC-153.

SOC-1160 Introduction to Sociology
(3.00 cr.) This course is an orientation to sociology and serves as a brief picture of its scope as a developing discipline. The course will examine how individual lives are shaped by one's place in society and how people cope within their social and cultural contexts. The focus is on Canadian culture, diversity, and social trends, and how Canada is affected by its position in the world. Not available for supplemental. Instruction (3.0). Equivalent to SOC-160.

SOC-1167 Sociology of Aging • (3.00 cr.) An introduction to the sociology of aging with a focus on diversity, population aging, and social trends. Exploring how gender, social class, culture and demographics influence age-related experiences in social and recreational activities, work roles, and relationships. Examining the implication of an aging population on health care, pensions, retirement, family support, and death and dying, as well as social problems including poverty and elder abuse. Not available for supplemental. Instruction (3.0). Equivalent to SOC-167.

SOC-1170 Introduction to Social Work
(3.00 cr.) This course provides students with a self-directed and collaborative learning opportunity focused on Canadian social welfare and the profession of social work. Students will be introduced to the professional values, ethics, knowledge bases, roles, responsibilities, fields of practices, and practice settings of social work. In addition, students will critically examine their beliefs, values, and attitudes in relation to society of which they are members and explore their individual interests within the profession of social work. Not available for supplemental. Instruction (3.0). Equivalent to SOC-170.

SOC-2250 Sociology of Sports
(3.00 cr.) This course examines topics beyond game scores and player performance and encourages students to think critically about sports, how it is influenced by social and cultural contexts, how sports shape our lives, and the relationship between sports and social institutions. Important issues such as violence, cheating, and hazing as well as issues of inequality and the relationship between social classes, gender, race and participation are also critically examined. Not available for supplemental. Instruction (3.0). Equivalent to SOC-250. Requisite courses: Take SOC-1160 or PSY-1160 (Required, Previous).

SOC-2255 Offenders With Special Needs
(3.00 cr.) This course focuses on the identification of unique offender groups and the treatment of these groups within the correctional context. Specific areas of study include offenders with health conditions, learning disabilities, developmental disabilities, traumatic brain injuries, conditions related to the aging process, fetal alcohol spectrum disorder, mental health conditions psychopathy, and those in custody for sex offences. Not available for supplemental. Instruction (3.0). Equivalent to SOC-255.

SOC-2260 Social Problems • (3.00 cr.) This course examines topics pertinent to a variety of sociological problems that affect Canada and the world. Through the application of sociological theories, important social issues such as drug abuse, crime, inequality and poverty, gender inequality, race and ethnicity problems, family problems, overpopulation, environmental issues, and global conflict are critically examined. Not available for supplemental. Instruction (3.0). Equivalent to SOC-260. Requisite courses: Take SOC-1160 (Required, Previous).

SOC-2270 Sociology of the Family
(3.00 cr.) This course is a study of Canadian family life in both a historical and sociological perspective with an emphasis on current trends and research on the family. Not available for supplemental. Instruction (3.0). Equivalent to SOC-270. Requisite courses: Take SOC-1160 (Required, Previous).

SOC-2273 Multicultural Issues
(3.00 cr.) This course examines values, beliefs, patterns of behaviour, intercultural communication processes and their impact on working with children, youth, families and other professionals. Specific multicultural concepts will be examined as will appropriate strategies for working within cross- cultural contexts.

Students will develop sensitivities and skills to assist them in understanding and working within cross-cultural context. Not available for supplemental. Instruction (3.0). Equivalent to SOC-273.

SOC-2275 Culture & Social Policy Abroad (3.00 cr.) This study abroad course studies the relationships between a society's social policies; its political systems, history and culture; and the country's religious traditions, music, and arts. Students will study one specific culture from many perspectives such as the social sciences, natural sciences, humanities, and the arts through research, observation, and critical inquiry during a two week study tour. Not available for supplemental. Instruction (6.0). Equivalent to SOC-275. Requisite courses: Take any one of ANT-1195, HIS-1170 HUM-1155 HUM-1180 PSC-1161 PSY-1160 or SOC-1160; (Required, Previous).

SOC-2276 Sexuality • (3.00 cr.)
This course examines how social factors contribute to our sexual beliefs and behaviors and how sexuality influences our personal lives and social policies. The course topics will be instructed primarily from a sociological perspective and will integrate sociological research and theories with information from psychology, biology, anthropology, and history. Students will be expected to consider their own perceptions, attitudes, and beliefs on sexuality in light of the scientific findings and to understand the global diversity of sexual practices and customs. Not available for supplemental. Instruction (3.0). Equivalent to SOC-276. Requisite courses: Take any one of SOC-1160, PSY-1160, or PSY-1170 (Required, Previous).

SOC-3355 Cultural Diversity in Conservation Enforcement (3.00 cr.)
Canada's diverse cultural heritage presents many challenges when resource management is considered. Cultural tradition often influences the perspective that individuals have to the conservation and management of natural resources. This course will examine the different cultural groups present in Canada with regard to their perspectives on natural resource use. Particular attention will be given to the Aboriginal culture and how it relates to resource use within the Canadian legal framework. This course will also explore the relationship between cultures other than the typical Euro-centric Caucasian culture and natural resource law enforcement in Canada. Students will learn how different cultures relate to natural resource law enforcement and will understand why these differences may exist. Instruction (3.0). Equivalent to SOC-355.

(SPN) SPANISH

SPN-1150 Introductory Spanish (3.00 cr.) This introductory level language course is designed primarily for students with no previous or little exposure to Spanish. The goal of this course is to introduce students to use the basic structures of the language, which are based on the four essential skills of communication: listening, reading, speaking, and writing. Instruction (3.0). Equivalent to SPN-150.

SPN-1151 Introductory Spanish II (3.00 cr.) Introductory Spanish II will complete the student's familiarity with all aspects of basic Spanish. The goal of this course is to build on the skills learned in Spanish 150 and to improve the student's competency in oral and written Spanish with special attention to communication skills for common situations. Students will be encouraged to practice and utilize concepts learned in class outside of the classroom setting. Instruction (3.0). Equivalent to SPN-151. Requisite courses: Take SPN-1150; (Required, Previous).

(SST) SOCIAL STUDIES

SST-0043 Social Studies I • (3.00 cr.)
This course is designed to apply the basic literacy skills taught in LAR 043 (Language Arts I) to the study of foundational social studies, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (3.0). Equivalent to SST-043.

SST-0048 Social Studies II • (3.00 cr.)
This course is designed to apply the intermediate literacy skills taught in LAR 048 (Language Arts II) to the study of foundational social studies, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (3.0). Equivalent to SST-048.

SST-0054 Social Studies III • (3.00 cr.)
This course is designed to apply the advanced literacy skills taught in LAR 055 (Language Arts III) to the study of foundational social studies, using adult appropriate materials with a life skills focus. Not open to supplemental. Instruction (3.0). Equivalent to SST-054.

SST-0075 Social Studies 0075 • (5.00 cr.)
This course explores multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on identity, lands, cultures, economies, human rights and quality of life. This course parallels AB ED Social Studies 10. Instruction (5.0). Equivalent to SST-075.

SST-0085 Social Studies 0085 • (5.00 cr.)
This course explores the origins of nationalism and its relation to industrialization and imperialism in the 19th and early 20th centuries. The influence of nationalism on regional and international relations is also examined. The infusion of multiple perspectives will allow for students to develop an understanding of nationalism and how nationalism contributes to the citizenship and identities of Canadian people. This course parallels AB ED Social Studies 20-1. Instruction (5.0). Equivalent to SST-085.

(STS) STATISTICS

STS-1155 Descriptive Statistics (3.00 cr.) An introduction to statistical concepts and techniques used in the fields of environmental science. Emphasis is on data collection and presentation techniques, calculation of measures of descriptive statistics and identification and application of select probability distributions. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take STS-1155L. (Required, Concurrent).

STS-2250 Statistics • (3.00 cr.)
In-depth coverage of techniques and tools used in statistical analysis and interpretation applied to business and economic situations. Includes collection and presentation of data; measures of descriptive statistics; probability and probability distributions; statistical estimation and hypothesis testing; correlation and regression analysis, and methods of time series analysis. Instruction (5.0). Equivalent to STS-250.

Course Descriptions STS 2260 - SUR 2285

STS-2260 Statistics & Applied Research I • (3.00 cr.) An introduction to the fundamentals of statistical methods and preparation to design and defend an applied research proposal. The first part of the course, statistical methods includes descriptive statistics, inferential methods, correlation, regression, and non-parametric methods. Computer literacy is required as statistical software is used. The second part of the course prepares students to establish the framework for the applied research project which will culminate in the applied research course. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (4.0). Equivalent to STS-1183, STS-183. Requisite courses: Take COM-1164, MTH-1150 (Required, Previous).

STS-2270 Social Science Research Methods • (3.00 cr.) A skills-based approach to social science research. Participation in all aspects of the social science research process including theoretical development and design, data collection, statistical analysis, SPSS software and research ethics culminating in a comprehensive, quantitative social science research project. Not available for supplemental. Instruction (3.0). Equivalent to STS-270. Requisite courses: Take any one of HIS-1170 PSC-1150 PSC-1161 SOC-1160 or PSY-1160; (Required, Previous).

STS-3355 Inferential Statistics • (3.00 cr.) This course presents a variety of inferential statistical methods applied to resource management and environmental problems. Topics include hypothesis testing (both parametric and non-parametric methods) to compare means, variances, frequencies, multiple regression, non-linear regression analysis, analysis of variance (ANOVA) for multiple comparison, experimental design, and multivariate statistics. Not available for supplemental. Instruction (3.0), Lab (2.0). Requisite courses: Take STS-3355L. (Required, Concurrent).

(SUR) SURVEY

SUR-1150 Land Survey I • (3.00 cr.) An introduction to the theory and practice of surveying. Theory will be delivered via lecture and textbook. Fundamental topics such as, but not limited to, chaining, leveling and total station use will be introduced. The application and use of data generated by these methods will be focused on. Practical use of survey equipment will reinforce theory through “real world” applications. This course is taken by students from all three programs in the School of Engineering Technologies and is a base for future courses. Not available for supplemental. Instruction (5.0). Equivalent to SUR-150.

SUR-1180 Land Survey II • (3.00 cr.) The application of engineering surveying activities and content. The focus will centre on roadway examples, with references made to how the topics would be applied to other engineering projects. Topics are based on design calculations and surveying for a variety of civil engineering projects. Plan and report preparation will be emphasized. Industry standard design software will be used to supplement and reinforce the field practices. Not available for supplemental. Instruction (4.0). Requisite courses: Take CAD-1160, EDD-1160, SUR-1150. (Required, Previous).

SUR-2250 Survey Calculations & Analysis • (3.00 cr.) An exploration of standard survey calculations. Use of hand and computer calculations will be applied through a variety of tasks. Topics and related calculations may include vertical adjustments, traverse computations, intersections, error theory, coordinate geometry, least squares and/or linear algebra. Students will be encouraged to select the appropriate calculation tool and/or method to solve survey problems. Not available for supplemental. Instruction (5.0). Requisite courses: Take MTH-1170. (Required, Previous).

SUR-2262 Specialized Positioning Applications • (3.00 cr.) An exploration and application of Global Navigation Satellite Systems (GNSS), Light Image and Detection and Ranging (LIDAR) and Unmanned Aerial Vehicles (UAVs) as used in the geomatics industry. The theory behind, and use of, these three techniques will be discussed and reviewed. A focus on application of techniques for alternative positioning systems. Surveys using GNSS, LIDAR and UAV will be used to gather data. Industry-standard software will be used to process field data. Not available for supplemental. Instruction (5.0). Requisite courses: Take GEO-1185, SUR-1180. (Required, Previous).

SUR-2267 Advanced Survey Applications I • (3.00 cr.) An examination of the practices for conventional survey instruments. Application of instruments including theodolites, total station, and levels and their accessories. Testing and calibration of these instruments will be performed. Application of instruments for a wide range of tasks such as astronomic observations and theory; horizontal and vertical control; and trigonometric leveling, including recommendations of the correct tools for the appropriate survey task. The labs are designed to replicate `real world’ scenarios and to bring theory to practicality. Not available for supplemental. Instruction (5.0). Requisite courses: Take GEO-1185, SUR-1180 (Required, Previous).

SUR-2272 Cadastral Surveying (3.00 cr.) A study of legislation governing geomatics, land survey systems for the division of land, and the governance of geomatics groups and associations. Topics include an examination of the planning process including land planning policy, regulations, land development concepts, and subdivision design requirements. Students will participate in practical projects related to current land planning issues. Not available for supplemental. Instruction (6.0). Requisite courses: Take SUR-1180 (Required, Previous).

SUR-2280 Geomatics Engineering Surveys • (3.00 cr.) Application of survey techniques for engineering projects including creating plans using AutoCAD and Civil 3D software. Specific survey tools, skills, and procedures will be discussed and analyzed. Survey techniques relating to engineering projects will be presented and applied. Preliminary, layout, quantity, and as-built surveys for the design and construction of utilities, roads, bridges, buildings, dams, and tunnels. Plan interpretation and preparation for engineering purposes will be presented and examined. The path from office to field to office will be emphasized. Not available for supplemental. Instruction (6.0). Requisite courses: Take SUR-2262. (Required, Previous).

SUR-2285 Advanced Survey Applications II • (3.00 cr.) Examination of survey project office and field techniques from conception to completion. Office techniques such as research, analysis of requirements, cost estimates, data preparation will be explored.

Field techniques involving setting control, data gathering and design stakeout. Includes surveys for deformation monitoring, pipeline, logo layout, subdivision and house layout. Emphasis is put on the proper portrayal of information required by the Land Titles Office for the submission of legal survey plans. Plan preparation for projects will meet various client needs. Not available for supplemental. Instruction (6.0). Requisite courses: Take SUR-2262, SUR-2267. (Required, Previous).

(TAX) TAXATION

TAX-2251 Taxation • (3.00 cr.)
An examination of income taxation in Canada for individuals, the self-employed and corporations. Extensive coverage of Canada Revenue Agency regulations, the Income Tax Act, and problems associated with taxes payable by various types of business entities. Includes completion of federal and provincial income tax returns covering all types of income, deductions and tax credits. Other topics include distinguishing between types of income and reconciling business net income for tax purposes. Not available for supplemental. Instruction (5.0). Equivalent to TAX-251.

(TRG) THERAPEUTIC RECREATION – GERONTOLOGY

TRG-1150 Introduction to Therapeutic Recreation • (3.00 cr.) A foundational overview of the history, philosophy, concepts and issues in the field of therapeutic recreation. Emphasis on the helping nature of the recreation therapist role and the importance of self-awareness within the profession. The importance of leisure activities and the common barriers to recreation participation are discussed. Introductory information and discussion on a wide range of disabilities, medical conditions, and options for service delivery. Conceptual models of therapeutic service are explored. Not available for supplemental. Instruction (4.0). Equivalent to TRG-150.

TRG-1160 Therapeutic Rec. Program Planning I • (3.00 cr.) An introduction to the theoretical approach to program design in the therapeutic recreation setting. Concepts include: conditions and elements of the leisure experience, benefits sought from the leisure experience, program theories, leisure ability model, activity analysis and elements of program planning. Not available for supplemental. Instruction (3.0). Equivalent to TRG-160. Requisite courses: TAKE TRG-1150; (Required, Previous).

TRG-1164 Leadership Theory • (3.00 cr.)
An introduction to leadership concepts and theories including both the nature and reality of leadership in personal, community and organizational settings. Emphasis is on therapeutic recreation practice. Reflection and analysis of leadership topics and skills focusing on understanding the principles of effective leadership will be explored. Not available for supplemental. Instruction (3.0). Equivalent to TRG-164.

TRG-1199 Practicum I • (3.00 cr.)
A 200-hour practical application of theoretical concepts under the supervision of a therapeutic recreation professional within a pre-approved facility specializing in providing care for seniors. Primary focus on observing and assisting in the therapeutic recreation process. Practice within a team environment and development of person-centered therapeutic relationships with clients. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (3.0). Equivalent to TRG-199. Requisite courses: Take TRG-1150. (Required, Previous).

TRG-2200 Practicum II • (3.00 cr.)
This second practicum is held at a pre-approved facility that specializes in providing care for seniors. Under the supervision of a Therapeutic Recreation professional, knowledge and skills will be expanded as classroom theory is applied to practice. This final placement provides an opportunity to function in a Therapeutic Recreation professional capacity by employing professional standards of practice. Not available for supplemental. Not eligible for Prior Learning Assessment. Work Experience (3.0). Equivalent to TRG-200. Requisite courses: TAKE TRG-2253, TRG-2256, TRG-2260, TRG-2268. (Required, Previous).

TRG-2251 Seminar • (1.50 cr.)
An exploration of the more advanced roles and topics for the professional Therapeutic Recreation Specialist working with seniors. Emphasis on taking responsibility for continued education and building professional accountability. Interpretation and analysis of current research in the field of therapeutic recreation and gerontology. Not available for supplemental. Instruction (2.0). Equivalent to TRG-251.

TRG-2253 Therapeutic Recreation Assessment • (3.00 cr.) The application of the therapeutic recreation process of assessment as an essential foundation for identifying appropriate client intervention. Exploration of different forms of documentation and the analysis of assessment tools used in therapeutic recreation settings. Not available for supplemental. Instruction (4.0). Equivalent to TRG-253. Requisite courses: TAKE TRG-1199; (Required, Previous).

TRG-2256 Therapeutic Recreation Intervention • (3.00 cr.) An exploration of the therapeutic recreation intervention process used to assist individuals in coping and adapting to their environment and effecting change in their lives. Emphasis on the various forms of intervention used in geriatric settings. Not available for supplemental. Instruction (3.0). Equivalent to TRG-256.

TRG-2259 Therapeutic Recreation Issues & Trends • (3.00 cr.)
An exploration of the more advanced roles and topics for the professional Therapeutic Recreation Specialist. Emphasis on taking responsibility for continued education and building professional accountability. Interpretation and analysis of research, including issues and trends in therapeutic recreation and gerontology. Not available for supplemental. Instruction (3.0). Requisite courses: Take TRG-2256, TRG-2268 (Required, Previous).

TRG-2260 Therapeutic Rec. Program Planning II • (3.00 cr.) Application of therapeutic recreation specific program design and leisure education programs. Program and client evaluation are examined. The budget process and fundraising strategies are explored and utilized. Not available for supplemental. Instruction (3.0). Equivalent to TRG-260. Requisite courses: TAKE TRG-1160; (Required, Previous).

TRG-2263 Aging Disorders and Disabilities • (3.00 cr.) An overview of disorders and disabilities common to the aging population from the perspective of the therapeutic recreation professional. Not available for supplemental. Instruction (3.0). Equivalent to TRG-263. Requisite courses: TAKE BIO-1152; (Required, Previous).

Course Descriptions TRG 2264 - VXR 1160

TRG-2264 Community Resources (3.00 cr.) The exploration of community related resources from the human, business, voluntary and governed sectors that support the therapeutic recreation professional, client and/or client families. Communication techniques for accessing and utilizing community resources are compared and applied. Not available for supplemental. Instruction (3.0). Equivalent to TRG-264.

TRG-2268 Therapeutic Recreation Programs • (6.00 cr.) A capstone course integrating all aspects of therapeutic recreation program delivery. Focus on theory and practice in the various areas of core recreation programming. Demonstration of programming knowledge and skills is required. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0), Lab (6.0). Equivalent to TRG-268. Requisite courses: Take TRG-1160 and TRG-1199 (Required, Previous). Take TRG-2268L (Required, Concurrent).

TRG-2270 Admin. Practices Therapeutic Recreation • (3.00 cr.) An examination of administrative concepts and supervisory skills. An exploration of human resource planning and volunteer management. The purpose of policy and procedure, quality improvement, risk management are discussed. Emphasis is on therapeutic recreation practice. Not available for supplemental. Instruction (3.0). Equivalent to TRG-270.

TRG-2299 Advanced Practicum II (6.00 cr.) A 320-hour advanced practical application of theoretical concepts under the supervision of a therapeutic recreation professional within a pre-approved facility specializing in providing care for seniors. Competency in the therapeutic recreation process and practice is demonstrated. Emphasis on the development of administrative and leadership skills in therapeutic recreation practice, as well as employment of professional standards of practice. Not available for supplemental. Not eligible for Prior Learning Assessment. Graded: Pass/Fail. Work Experience (6.0). Requisite courses: Take TRG-2253 TRG-2256 TRG-2260 TRG-2268. (Required, Previous).

(TRS) TRANSPORT

TRS-1150 Transportation Legislation (3.00 cr.) An introduction to the specific acts and regulations which govern commercial vehicles and their operators. Focuses on provincial legislation addressing vehicle equipment and operations, operating requirements and rules, and general prohibitions which apply to all road and highway users. Instruction (3.0). Equivalent to TRS-150.

TRS-1151 Officer Safety • (6.00 cr.) This course provides information on the best strategies for various situations. It examines procedures and provides tactics that will assist students' mindsets when confronting a potentially uncooperative subject. The use of pepper spray and vehicle stop procedures are included. This course focuses on the scenarios encountered by commercial vehicle enforcement officers and follows Alberta Transportation Policy and Procedure. Instruction (5.0). Equivalent to TRS-151.

TRS-1152 Licensing • (3.00 cr.) An introduction to the licensing and registration requirements for commercial vehicles and their drivers. Examines how the various provincial acts and regulations which govern the licensing process for commercial vehicle operations are applied and enforced. Instruction (3.0). Equivalent to TRS-152.

TRS-1153 Cargo Securement • (3.00 cr.) An introduction to cargo securement and the requirements for commercial vehicle operators to ensure proper load securement. Examines relevant legislation and the national standards for a variety of load types and commodities. Instruction (3.0). Equivalent to TRS-153.

TRS-1155 Weights and Dimensions (3.00 cr.) An introduction to commercial vehicle weights and dimensions. Examines legislation which governs maximum size and weight as well as exceptions for commercial vehicles and loads. Addresses specific road weight allowances and restrictions and special permit options. Instruction (3.0). Equivalent to TRS-155.

TRS-1160 Hours of Service Legislation (3.00 cr.) An introduction to hours of service requirements for commercial vehicle operators. Examines federal and provincial legislation governing the number of hours a driver is permitted to operate a commercial vehicle. A skills-based approach to reading and interpreting driver logbooks. Identifies definition, charging, and penalty sections with respect to hours of service offences. Instruction (3.0). Equivalent to TRS-160.

TRS-1165 Transport Law • (3.00 cr.) An introduction to the history, sources, structure, interpretation, and application of our law. Examines the elements of an offence, powers of arrest, search and seizure provisions, and charging procedures for federal and provincial offences. Provides introduction to court processes, including the requirements for compelling individuals to attend court. Instruction (3.0). Equivalent to TRS-165.

(TTC) TRAVEL AND TOURISM

TTC-2251 Tourism • (3.00 cr.) This course will focus on the basic concepts, methods and practices of tourism management. It examines the tourism industry, the effects of tourism on society, developments and global forces shaping the future of the industry. Instruction (4.0). Equivalent to TTC-251.

(VXR) VIRTUAL AND AUGMENTED REALITY

VXR-1150 Introduction to Immersive Technology • (3.00 cr.) An identification of historic milestones of immersive technology and industry terminology. Students will meet, interact and learn best practices with industry professionals in Virtual Reality. The set-up of multiple VR platforms, use of immersive technology for various applications and build, as well as exploration of an immersive environment is also included. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite Courses: Take VXR-1150L; (Required, Concurrent)

VXR-1160 Modeling for Extended Reality (3.00 cr.) An introductory modeling course exploring a variety of spatial and object creation techniques necessary for game engine workflow. Three-dimensional software and tools facilitating the development of game assets and environment creation will be explored.

Course Descriptions VXR 1161 - WTT 1100

Topics include low and high polygon modeling, three-dimensional geometry and surface creation, material creation and basic lighting techniques. Course topics are applied through in-class exercises and practical, hands-on assignments. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite Courses: Take VXR-1160L; (Required, Concurrent)

VXR-1161 Advanced Modeling for VXR (3.00 cr.) An advanced modeling course to further develop architectural space, object libraries and concepts from within a variety of virtual world environments. Object and material interactivity is explored within the digital environment platforms. Collaboration will be explored through immersive experiences in order to build upon innovative design thinking frameworks and to develop creative and critical thinking patterns necessary for architectural exploration. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite courses: Take VXR-1160; (Required, Previous). Take VXR-1161L (Required, Concurrent)

VXR-1165 Advanced Design for VXR (3.00 cr.) An advanced course which combines theoretical principles of XR design with hands-on activities. Interface and interaction design concepts will be discussed, researched and applied through a collaborative approach. Focus will be on creating immersive experiences that feel natural and intuitive. Not available for supplemental. Instruction (1.0). Lab (2.0). Requisite courses: Take VXR-1160 VXR-1170 VXR-1180; (Required, Previous). Take VXR-1165L; (Required, Concurrent).

VXR-1170 Game Engine Coding I (3.00 cr.) A hands-on course in which programming concepts within an industry-standard game engine will be explored. Emphasis will be on completing immersive experiences that are designed well and optimized for a variety of platforms. Not available for supplemental. Instruction (1.0). Lab (2.0). Requisite courses: Take VXR-1170L; (Required, Concurrent).

VXR-1171 Game Engine Coding II (3.00 cr.) An advanced game engine coding class that will introduce new concepts for creating immersive experiences. Topics include multiplayer development for social virtual reality, Augmented Reality concepts, mobile AR software development kits and creating AR experiences. Not available for supplemental. Instruction (1.0). Lab (2.0). Requisite courses: Take VXR-1170; (Required, Previous). Take VXR-1171L; (Required, Concurrent).

VXR-1180 Basic Image Capture (3.00 cr.) An investigation of different methods of capturing still and moving images for use in Virtual Reality. Includes, but is not limited to 360-degree video, photogrammetry and volumetric capture. Students will also learn how to incorporate these captured assets into a basic Virtual Reality experience designed in a game engine that will allow participants to be immersed and engaged in a virtual environment. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite courses: Take VXR-1180L; (Required, Concurrent).

VXR-1181 Advanced Media Capture (3.00 cr.) A continuation of VXR 1180 and VXR 1190, investigating advanced sound and visual capture and post-production techniques used to create high quality immersive experiences for different Virtual Reality and Augmented Reality platforms. Student teams will work through a project-based curriculum to look at ways of integrating media assets into a game engine, and discover different commercial, educational, and creative applications for these ever-evolving technologies including Cinematic VR, Motion Capture, and LiDAR. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite courses: Take VXR-1180 VXR-1190; (Required, Previous). Take VXR-1181L; (Required, Concurrent).

VXR-1190 Immersive Audio Design (3.00 cr.) An introduction to recording, editing and mixing digital audio for the 360-degree space. Students will investigate basic audio concepts and discover how the use of music, sound effects, voice, ambisonics and spatial audio can make an immersive experience more compelling. Not available for supplemental. Instruction (1.0), Lab (2.0). Requisite courses: Take VXR-1190L; (Required, Concurrent).

VXR-1195 Industry Integration • (3.00 cr.) A mentor-based experience spanning 120 hours, to create a project concept for businesses from various industries in their chosen specialization. Projects can be an integration of immersive storytelling, digital environment modeling or coding interactive experiences. This industry integration provides real-world experience, support and mentoring. Not available for supplemental. Work Experience (3.0). Requisite courses: Take VXR-1161 VXR-1165 VXR-1171 VXR-1181 BUS-1177; (Required, Previous).

(WHS) WORKPLACE HEALTH SAFETY

WHS-1110 Workplace Safety • (3.00 cr.) This course will provide instruction and training to students in safe work practices and procedures. The focus will be on working safely with equipment and co-workers on a worksite. This course will be graded CR/NCR. Not available for supplemental. Instruction (4.0). Equivalent to WHS-110.

(WRI) WRITING

WRI-1150 Writing for Interactive Media (3.00 cr.) An introduction to the stages of writing for interactive projects. Focus is on conceptualizing, planning, writing and organization of content for presentation in interactive formats. Using writing styles to reach target audiences will also be explored. Instruction (3.0). Equivalent to CAP-1161, WRI-150, CAP-161.

(WTT) WIND TURBINE TECHNICIAN

WTT-1100 Introductory Electrical Theory (3.00 cr.) An entry-level course in which electrical properties such as voltage, current, resistance and power are explored. The course will provide the student with the necessary foundations for more advanced electrical concepts. Students who have successfully completed this course in addition to WTT-1103 and WTT-1104 will have the equivalent of the Alberta Apprenticeship and Industry Training 1st Year Electrician Technical Training and will be eligible to write the Period One Electrician Provincial Exam. Not available for supplemental. Instruction (2.0), Lab (3.0), Tutorial (1.0). Requisite courses: Take WTT-1103, WTT-1104, WTT-1100L, WTT-1100T. (Required, Concurrent).

Course Descriptions WTT 1103 - WTT 1125

WTT-1103 DC Laboratory Fundamentals (3.00 cr.) An introductory course in which students will practice and apply electrical theory and safety in a lab setting. Proper and safe application of electrical instruments to evaluate electrical properties. Circuitry and troubleshooting will also be a focus of this course. Students who have successfully completed this course, in addition to WTT1100 and WTT1104, will have the equivalent of the Alberta Apprenticeship and Industry Training 1st Year Technical Training and will be eligible to write the Period One Electrician Provincial Exam. Not available for supplemental. Instruction (2.0), Lab (3.0), Tutorial (1.0). Equivalent to WTT-103. Requisite courses: Take WTT-1100, WTT-1104, WTT-1103L, WTT-1103T. (Required, Concurrent).

WTT-1104 Cdn. Electrical Code & Blueprint Reading • (3.00 cr.) An introduction to the interpretation and application of the Canadian Electrical Code (CEC) standards to ensure that all electrical installations provide for the safety of people and the protection of property. Interpretation of blueprints and electrical diagrams will also be covered. Students who have successfully completed this course, in addition to WTT1100 and WTT1103, will have the equivalent of the Alberta Apprenticeship and Industry Training 1st Year Technical Training and will be eligible to write the Period One Electrician Provincial Exam. Not available for supplemental. Instruction (2.0), Tutorial (4.0). Equivalent to WTT-104. Requisite courses: Take WTT-1100, WTT-1103, WTT-1104T. (Required, Concurrent).

WTT-1110 Wind Turbine Safety I (3.00 cr.) An introduction to the skills necessary for the practice of safe work habits in the wind industry. Focus is on techniques and guidelines for proper use of industry safety gear. Specialized gear includes, but is not limited to, fall arrest and high voltage protection. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to WTT-110.

WTT-1113 Wind Turbine Rotor Blades (1.50 cr.) An introduction to rotor blade function and design. Topics covered will include the fundamentals of fiberglass reinforced plastics, and the skills necessary to evaluate, document and repair rotor blade damages. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (1.0), Lab (1.0). Equivalent to WTT-113. Requisite courses: Take WTT-1113L (Required, Concurrent).

WTT-1114 Wind Turbine Mechanical (3.00 cr.) An introduction to the fundamental mechanical principles of wind turbines. Focus is on basic function, maintenance, repair, and replacement of wind turbine components. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to WTT-114.

WTT-1115 Wind Energy Theory (1.50 cr.) An introduction to the fundamentals of wind energy, this course covers the historical development of humanity's use of technology to harness wind power. An investigation into the current technology will focus on components, siting, basic meteorology, and energy production of wind turbines. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (2.0). Equivalent to WTT-115.

WTT-1116 Motor Control & Programmable Controllers • (1.50 cr.) An intermediate course that exposes the student to aspects of motor control and Programmable Logic Controllers (PLC) as they function in the wind turbine industry. A lab component is also used to reinforce course material. Not eligible for Prior Learning Assessment. Instruction (2.0), Lab (1.0). Equivalent to WTT-116. Requisite courses: Take WTT-1116L. (Required, Concurrent).

WTT-1117 Wind Turbine Hydraulics (3.00 cr.) An introduction to hydraulic systems, this course investigates basic principles of hydraulics which are applied in the maintenance and troubleshooting of components and systems in wind turbines. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to WTT-117.

WTT-1118 Wind Park Construction (3.00 cr.) An introduction to wind turbine component assembly and handling during construction and commissioning. Wind farm infrastructure facilitating collection and distribution of generated energy will be investigated. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to WTT-118.

WTT-1120 Wind Turbine Safety II (3.00 cr.) An intermediate wind turbine safety course where skills acquired in WTT-1110 will be further developed. Progressive methods of climbing, descending and rescue techniques will be presented and practiced. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (3.0). Equivalent to WTT-120. Requisite courses: Take WTT-1110; (Required, Previous).

WTT-1123 Wind Turbine Electrical (6.00 cr.) An intermediate course which will focus on the theory and generation of AC electricity. Control and conversion of AC and DC electricity, as it applies to wind turbines is studied. Electrical equipment used for the generation/conversion and control of electricity in a wind turbine will be presented in theory as well as in a laboratory setting. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0), Lab (1.0). Equivalent to WTT-123. Requisite courses: Take WTT-1100, WTT-1103, WTT-1104. (Required, Previous). Take WTT-1123L (Required, Concurrent).

WTT-1124 Wind Turbine Maintenance (3.00 cr.) A skills-based approach to component maintenance, inspection and documentation of wind turbine components. Troubleshooting skills are applied with an emphasis on safety. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (7.0). Equivalent to WTT-124. Requisite courses: Take WTT-1114. (Required, Previous).

WTT-1125 Wind Turbine Industry Communication • (1.50 cr.) An entry-level course designed to help the student become proficient in wind turbine industry communications. Students will be prepared to gain entry into, and be functional in, the daily operations of the industry. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (1.0). Equivalent to COM-1112, COM-112.

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CLS/CAT: General Ref
TITLE: LC CALENDAR
AUTHOR: .
IMPRINT: IN HOUSE
Trade books
VENDOR: INPLEX: TH

10120972

PRINTED IN CANADA 2019