

LETHBRIDGE COLLEGE • WHAT HAPPENS NEXT MATTERS MOST.

# ACADEMIC CALENDAR

## AND COURSE CATALOGUE

2022-23





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# HOME

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## 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

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 office 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.

# PRESIDENT'S WELCOME

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## BE READY - TO EMBRACE THE OPPORTUNITIES AT LETHBRIDGE COLLEGE

Hello!

It is my pleasure to welcome you to our Lethbridge College community.

By joining Lethbridge College, you are helping to write the next chapter of our history as we enter our 65th year of serving southern Alberta. We are a staple of the community and we have sent tens of thousands of graduates onto meaningful and fulfilling careers.

You are ready to join this proud tradition, and I believe you have made a great choice for your academic journey. We are here to support you and are committed to providing you with an excellent experience during your time at Lethbridge College.

This academic calendar is the place to go to get information about the programs, courses and services we offer. 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 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'll be ready to learn from applied research opportunities, working directly with faculty and industry as you solve real-world problems.
- You'll be ready to take an active role in your education and to offer an important voice in classroom conversations as you prepare to be a valued member of your chosen field.

- You'll be ready to make connections with people and ideas that can make big changes at home and around the world.

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. 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

# ACADEMIC SCHEDULES

## Academic Schedule 2022-2023

### Summer 22S1 (July to August 2022)

Date	Day	Event
July 1	Friday	College Closed (Canada Day)
July 4	Monday	Summer Term Begins
July 6	Wednesday	Fees Due & Add/Drop Ends
July 12	Tuesday	Extended Drop Ends
August 1	Monday	College Closed (Heritage Day)
August 19	Friday	Last Day to Withdraw & Last Day of Classes
August 22 & 23	Monday & Tuesday	Final Exams
August 26	Friday	Final Grades Due to Registrar by 8:30 am

### Fall 22FL (September to December 2022)

Date	Day	Event
September 5	Monday	College Open (Labour Day)
September 6	Tuesday	New Student Orientation
September 6	Tuesday	Domestic Application Deadline for September 2022
September 7	Wednesday	Fall Term Begins
September 14	Wednesday	Fees Due & Add/Drop Ends
September 27	Tuesday	Extended Drop Ends
September 30	Friday	No Classes (National Day for Truth & Reconciliation)
October 1	Saturday	Applications Open for Fall (September) 2023
October 1	Saturday	International Application Deadline for Winter (January) 2023
October 10	Monday	College Closed (Thanksgiving Day)
October 15	Saturday	Fall Convocation
November 11	Friday	College Closed (Remembrance Day)
November 14	Monday	Reading Break
December 9	Friday	Last Day to Withdraw & Last Day of Classes
December 12 – 16	Monday – Friday	Final Exams
December 20	Tuesday	Final Grades Due to Registrar by 8:30 am
Dec 24 – Jan 2	Saturday – Monday	College Closed (Winter break)

### Winter 23WN (January to April 2023)

Date	Day	Event
January 3	Tuesday	College Open
January 4	Wednesday	Domestic Application Deadline for Winter (January) 2023
January 5	Thursday	Winter Term Begins
January 12	Thursday	Fees Due & Add/Drop Ends
January 25	Wednesday	Extended Drop Ends
February 1	Wednesday	Applications Open for Winter (January) 2024
February 1	Wednesday	International Application Deadline for Spring (May) 2023
February 20	Monday	College Closed (Family Day)
February 21 – 24	Tuesday - Friday	Reading Week
April 7	Friday	College Closed (Good Friday)
April 10	Monday	College Closed (Easter Monday)
April 14	Friday	Last Day to Withdraw & Last Day of Classes
April 17-21	Monday – Friday	Final Exams
April 25	Tuesday	Final Grades Due to Registrar by 8:30 am
May 26	Friday	Spring Convocation

### Spring-Short 23S2 (May to June 2023)

Date	Day	Event
May 2	Tuesday	Domestic Application Deadline for Spring (May) 2023
May 3	Wednesday	Spring (Short) Term Begins
May 5	Friday	Add/Drop Ends
May 10	Wednesday	Fees Due
May 11	Thursday	Extended Drop Ends
May 22	Monday	College Closed (Victoria Day)
May 26	Friday	Spring Convocation
June 1	Thursday	Applications Open for Spring (May) 2024
June 1	Thursday	International Application Deadline for Fall (September) 2023
June 20	Tuesday	Last Day to Withdraw & Last Day of Classes
June 22-23	Thursday-Friday	Final Exams
June 27	Tuesday	Final Grades Due to Registrar by 8:30 am

Spring-Long 23SM (May to August 2023)

Date	Day	Event
May 2	Tuesday	Domestic Application Deadline for Spring (May) 2023
May 3	Wednesday	Spring (Long) Term Begins
May 10	Wednesday	Fees Due & Add/Drop Ends
May 22	Monday	College Closed (Victoria Day)
May 24	Wednesday	Extended Drop Ends
May 26	Friday	Spring Convocation
June 1	Thursday	Applications Open for Spring (May) 2024
June 1	Thursday	International Application Deadline for Fall (September) 2023
July 3	Monday	College Closed (Canada Day)
August 4	Friday	Last Day to Withdraw & Last Day of Classes
August 7	Monday	College Closed (Heritage Day)
August 8 - 11	Tuesday - Friday	Final Exams
August 15	Tuesday	Final Grades Due to Registrar by 8:30 am

Academic Terms

Lethbridge College’s defined academic year is July 1 - June 30. Generally, an academic term is a period in which all classes are scheduled to begin and end within a set time frame. The academic year is divided into five terms, normally between the date of:

Academic Term	Set Time Frame
Summer	July 1 - Aug. 31
Fall	Sept. 1 - Dec. 31
Winter	Jan. 1 - April 30
Spring (Short)	May 1 - June 30
Spring (Long)	May 1 - Aug. 31

Registration Dates and Deadlines

The following dates represent when course additions or changes can be made within an academic term, along with corresponding penalties (if applicable).

Deadline Type	Deadline of Courses	Refund	Transcript Implications
Add/Drop	Courses less than 8 weeks in length have until 3rd business day of course.	Full tuition refund of course	No entry on transcript
	Courses 8+ weeks have until the 6th business day of course.		
Extended Drop	Courses less than 8 weeks in length have until 7th business day of course.	Refund of tuition of courses less \$50	No entry on transcript
	Courses 8+ weeks have until the 15th business day of course.		
Course Withdrawal	Last day of course	No refund of tuition	Grade of "W" (no impact on GPA)

# 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

**Applicant:** An individual who has applied to a Lethbridge College program.

**Student:** An applicant who has accepted their Offer of Admission and paid the associated tuition deposit.

**Full-Time Status:** During the Fall (September to December), Winter (January to April) and Spring Long (May to August) terms, you must be registered in at least nine credits to have full-time status.

During the Summer (July to August) and Spring Short (May to June) terms, you must be registered in at least 4.5 credits to be full-time status.

**Part-Time Status:** Any credit load below the threshold of full-time status studies. Please note if you are funded, an athlete on a Kodiak team or attending on a study visa, you must maintain a full-time status.

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

**Admission Process:** Applications 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.

**Computer Skills:** 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](https://applyalberta.ca) (<https://applyalberta.ca/>).

**Apply Online:** You can apply online by going to <https://lethbridgecollege.ca/apply> (<https://lethbridgecollege.ca/apply/>). A \$100 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.

**Changing Programs:** 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.

**Return to Program:** Applicants returning to their program after an absence of one (1) term [or two (2) consecutive terms when one (1) of the terms includes the spring/summer term] can complete a Return to Program form prior to the application deadline - with no additional

application processing fee. Applicants last academic standing must be With Great Distinction, With Distinction, Honours, Good or Probationary in order to use this form. Applicants who withdrew in their last term of attendance must apply through ApplyAlberta and pay the application processing fee.

## Application Dates

Opening and closing dates for domestic and international applications are outlined in the Academic Schedule at the front of the Lethbridge College calendar and online at [lethbridgecollege.ca/program-status](https://lethbridgecollege.ca/program-status) (<https://lethbridgecollege.ca/program-status/>). Since some programs have limited enrolment, we recommend applying early.

## Admission Appeal Procedure

Applicants have the right to fair and equitable process for resolving matters that affect their admission to Lethbridge College when admission has been denied based on the following policy statement below. Only an admission decision based on the following Policy Statement may be appealed to the Appeal Committee:

*Lethbridge College reserves the right to refuse admission to an applicant who may constitute a threat or risk of threat to college employees, students, property, or to individuals from the wider community to access Lethbridge College services and properties.*

The following Appeal procedure outlines the process an individual is required to follow in the event that he or she believes that the admission decision should be re-evaluated.

### 1. General Procedure

a) A dispute should be resolved at the earliest step possible.

b) The process will be supported via an appropriate technology/media for individuals who do not attend the Lethbridge campus. The individual may request to be accompanied by someone from a college department such as Accessibility Services, Counseling Services, Academic Advising, a member of the Lethbridge College Students' Association, or any other individual of their choice. However, the Appeal Procedure is an internal review process of Lethbridge College and therefore legal counsel is not allowed to attend meetings that are held during any step of the process.

c) All relevant documentation pertaining to this process shall, upon request, be made available to both parties. The individual is advised that those involved in the process are governed by existing Lethbridge College policies and procedures governing confidentiality.

### 2. Appeal Process

#### Step 1: Review by the Registrar

The individual may submit a written petition (letter) to the Registrar asking for reconsideration of the admission application. The Registrar's office will contact the individual to arrange a meeting where the petition will be discussed.

#### Step 2: Submission to the Appeal Committee

If the above fails to resolve the issue, the applicant may request a formal hearing by the Appeal Committee by delivering the Appeal form to the Registrar's Office a minimum two (2) weeks prior to the start of the term.



It is the responsibility of the Registrar to convene the Appeal Committee and will advise the Program Dean that the individual has submitted an appeal.

The official record of the final decision of the Appeal Committee shall be issued to the Registrar and will include:

- a) the decision related to the admission status, and
- b) the rationale for the decision.

The Registrar will provide a written statement of the Committee's decision including the rationale, to the student and the Dean.

If the student appeal is successful, the Registrar's Office will proceed with the Admissions process. After the decision is rendered, documents related to the appeal will all be return to the Chairperson who is responsible for appropriate handling.

The official record will contain the final decision of the Appeal Committee as well as the Appeal form. All official records will be held in accordance with the Records Management Policy.

## Registration

Registration is the process by which 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 your Lethbridge College email. You are encouraged to monitor your College e-mail account for possible updates and to review your Program Evaluation through Self Service 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 Self Service. (Refer to the Academic Schedule on Page 3 of the calendar for term start dates.)

## 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: <https://lethbridgecollege.ca/departments/institutional-compliance/policies-and-procedures> (<https://lethbridgecollege.ca/departments/institutional-compliance/policies-and-procedures/>). The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant policies such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at [policy@lethbridgecollege.ca](mailto:policy@lethbridgecollege.ca).

## Admission Routes

There are seven routes for admission to Lethbridge College. The admission route the applicant is considered under will be determined by Lethbridge College based on one of the following:

\* See tables below for lists of programs that have additional academic requirements; or for programs that do not require a high school diploma for admission.

### High School\*

Applicants must provide high school transcripts showing successful completion of a Canadian high school diploma from a publicly-funded institution, including successful completion of English 30-2, English 30-1, or an equivalent course.

### 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. Applicants requiring a high school math course may complete an assessment (refer to Placement Assessment Procedures) to challenge the admission requirement.

### 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 English 0032 (6 credits))
  - Successful completion of a post-secondary English course
  - Assessment – refer to Placement Assessment Procedure

### 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 applications are evaluated on a competitive basis, taking into account factors such as grades, English language proficiency, and campus diversity.

#### English Language Proficiency

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. All English tests must have been completed within the last 2 years prior to application.

	Most programs	Practical Nursing & Therapeutic Recreation	Health Care Aide
IELTS Academic	6.0; no band below 6.0	6.0 Reading; 6.5 in all other bands	6.0; no band below 5.5
TOEFL	550 (213 if computer-based)		
TOEFL iBT	80	21 Reading; 22 Speaking; 23 Listening; 25 Writing	71
PTE (Pearson)	54		
CAEL	60; 60 in Writing, 50 in all other bands		
CELPPI General			7; no section below 6
CLB			7 in all bands

Grade 12 English	Minimum English 30-2 or equivalent from a recognized country*		
1 post-secondary English course	From an accredited English-speaking post-secondary institution from a recognized country*		
English for Academic Purposes (EAP)	Minimum C grade in EAP 0096, 0097, 0098 at Lethbridge College		
Full-time secondary studies in English	N/A	Successful completion of 3 years of full-time secondary education at an English-medium school in a recognized country within 2 years prior to application*	Successful completion of 3 consecutive years of full-time education (Grades 9-12) at an approved Canadian high school
Full-time post-secondary studies in English	N/A	Successful completion of 1 year of full-time post-secondary education at an English-medium school in a recognized country within 2 years prior to application*	Successful completion of 2 consecutive years of full-time post-secondary education in Canada

### \*Recognized Countries

Applicants from the following countries may be able to meet the English Language Proficiency requirement for most programs with the equivalent of a Grade 12-level or postsecondary-level English course completed at a school or college/university within their country.

Anguilla	Dominica	Ireland (Northern)	St. Kitts & Nevis
Antigua and Barbuda	Ethiopia	Ireland (Republic of)	St. Lucia
Australia	Falkland Islands	Jamaica	St. Vincent & the Grenadines
Bahamas	Fiji	Kenya	Trinidad & Tobago
Barbados	Gambia	Malta	Turks & Caicos Islands
Belize	Ghana	Mauritius	Uganda
Bermuda	Gibraltar	Montserrat	United Kingdom
British Virgin Islands	Grenada	New Zealand	United States of America
Canada	Guam	Nigeria	Zambia
Cayman Islands	Guyana	St. Helena	Zimbabwe

## Home-Schooled Applicants

Diplomas and/or courses completed through home education will not be used for admission unless the courses have been reported through the appropriate Ministry of Education. Home-Schooled applicants may use the Mature admission route (described above) to satisfy basic admission requirements, without having to meet the age criterion.

## Pathways to Advanced Learning

Students wishing to access ladder opportunities into advanced credentials will ensure admission requirements are met for the next level program. The student should contact an Academic Advisor.

## 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.
- 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.

## Reference Tables

**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 Chemis	Gr. 11 Chemis	Gr. 11 Physics	Gr. 12 Science
Agriculture Sciences - All Majors	X OR	X							
Agriculture Science Degree	X OR	X		X		X			
Architectural Animation Technology	X OR	X							
Business Administration	X OR	X							
Civil Engineering Technology	50% OR	60%						X OR	X
Computer Information Technology	X OR	X							
Engineering Design Technology	50% OR	60%						X OR	X
Environmental Assessment and Restoration	X OR	X			X		X		
Exercise Science				X					
Geomatics Engineering Technology	50% OR	60%						X OR	X
Interior Design Technology	X OR	X							
Massage Therapy				X					
Natural Resource Compliance	X	X			X				
NESA (for information only) Refer to University of Lethbridge Academic Calendar									
Practical Nurse - Refer to program page for additional requirements			60%	60%					
Renewable Resource Management	X OR	X			X		X		
Therapeutic Recreation - Gerontology - Refer to program page for additional requirements				X					

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. We will accept a minimum of dash 2 or equivalent for English (e.g., 10-2) and dash 3 or equivalent for Mathematics (e.g., 10-3).

Program	Gr. 11 English	Gr. 10 English	Gr. 11 Math	Gr. 10 Math	Science 10	Apprentice: Pass Entrance Exam in all 5 Canadian GED Tests
Agriculture Heavy Equipment	X		X			
Automotive Systems	X		X			
Culinary		X		X		
Health Care Aide	60%					

Pre-Employment Electrician	X	X	X	OR X
Pre-Employment Plumber	X	X	X	
Pre-Employment Powerline Technician	X	X	X	OR X
Pre-Employment Welder	X	X	OR X	OR X

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 - 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 who 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, 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 or the provincial Ministry of Education.

**Post-Secondary Transcripts** – Transcripts from post-secondary institutions can be accepted digitally if sent to Lethbridge College directly from the institution or by mail. If received by mail, the transcript 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 Self Service which includes options such as 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 emailed to the applicant's email 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 contact information or to have supporting admission documents delivered to Lethbridge College by the dates required.



# Placement Assessment Procedures

## Assessment Scenarios

1. **Academic Upgrading:** 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.
2. **Mature or Home School:** Individuals applying through the Mature Admission Route or Home School Admission Route may be evaluated for proficiency in:
  - a. English reading and writing skills required for admission to Lethbridge College.
  - b. Math skills required for admission to some Lethbridge College programs.
3. **Transfer:** Individuals applying through the Transfer Admission Route may be evaluated for proficiency in:
  - a. Math skills required for admission to some Lethbridge College programs.

## Assessment Process

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.

## Evaluation and Re-Assessment

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 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.

## Validity and Limitations

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.

# Recognition of Prior Learning

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.

Prior learning credit is awarded if the learning outcomes in a course can be demonstrated through our prior learning assessment (PLA) based on previous coursework and/or work/life experience.

## Applying for Transfer Credit

### Application Process

Applicants must submit a Transfer Credit Application form and official transcripts and course outlines (if requested by Lethbridge College) a minimum of one month prior to the start of the term to allow for review of transfer credit and/or prior learning credit in order to determine if outcomes are satisfied and award credit. Transfer credit requests will be assessed within 3-4 weeks of the date that all forms and documents have been received. Lethbridge College may request that applicants provide detailed course outlines/syllabi for courses that have not been assessed previously. Course outlines must have all essential elements to be assessed. If you receive transfer credit, your LC transcript will indicate a grade of TR for transferred courses. This will not affect your Lethbridge College GPA.

### Eligibility

Transfer credit will be awarded if the following criteria have been met:

- The course(s) requested were completed at a public institution or an institution recognized by Alberta Council on Admissions & Transfer ([www.acat.alberta.ca](https://acat.alberta.ca/) (<https://acat.alberta.ca/>))
- The course(s) requested cover at least 80% of the content of corresponding course(s) at Lethbridge College that are either required for the student's program OR qualify as approved electives for the student's program
- The course(s) requested were completed within the last ten (10) years. It is important to note that all courses used towards program completion must be successfully completed within 10 years. Any individual courses successfully completed more than ten years from the date of program graduation verification will be designated as "stale-dated". A stale-dated course will not be considered in the graduation eligibility assessment.
- The student has been offered a seat in a Lethbridge College (LC) program and confirmed the offer
- Lethbridge College has received the *official* transcript from the institution(s) in which the courses were completed

### Letters of Permission

Any courses taken from another institution during a Lethbridge College student's program will require a letter of permission from the Registrar's Office prior to enrolment in order to confirm eligibility for transfer credit.

### Prior Learning Assessment

All recognition of prior learning for the program curriculum will be assessed at the start of the program.

## Transferring to Other Institutions

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.transferralberta.ca](http://www.transferralberta.ca) (<http://www.transferralberta.ca>) or speak with an Academic Advisor to research your future opportunities.

# FEES AND FINANCIAL INFORMATION

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 and Legal plan, 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 the Lethbridge College website. Online payments include domestic bank payment options, as well as by credit card.

Learners provided with a user name and password will have access to our Internet portal for payments and to view their account status. T2202 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 T2202 tax form.**

Payments for all tuition and fees can be made on-line through the college's website or 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 2022-2023 fees are due for the following terms:

Term	Due Date
Summer I Term (July - August)	July 6, 2022
Fall Term (September - December)	September 14, 2022
Winter Term (January - April)	January 12, 2023
Spring & Summer II Term (May - June)	May 10, 2023

- 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.

## 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 no 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: <https://lethbridgecollege.ca/departments/institutional-compliance/policies-and-procedures> (<https://lethbridgecollege.ca/departments/institutional-compliance/policies-and-procedures/>). The majority of policies relevant to students are listed under the categories - Academic Programming & Instructional and Student Services & Support. Other relevant policies such as Parking & Traffic Management are included in the additional categories. If you have any questions, send us an email at [policy@lethbridgecollege.ca](mailto:policy@lethbridgecollege.ca).

## Fees

### Application Processing Fee

This \$100 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 2022-2023 Student Fee Schedules had not been finalized as of the date of publication of this calendar. Please check Lethbridge College's website for the 2022-23 tuition fee rates on courses and programs and other fees that are applicable for these services at [lethbridgecollege.ca](http://lethbridgecollege.ca) (<http://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 2022-2023 credit tuition fee rates as listed on the website, the planned credit tuition rates for 2023-24, 2024-25 and 2025-26 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 2022-23 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:

Fund	Percentage
Operations	59%
Campus Recreation	24%
Cave & Student Events	12%
Wellness	3%
Food Bank	1%
Dayplanner	1%

### 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, meeting eligibility, 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:

**Annual** • Provides 1 year of coverage from beginning of term billed in.

Health	Dental	Total
\$147.00	\$147.00	\$294.00

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.

### Legal Coverage

The LCSA has implemented Legal Coverage for students. Legal Coverage fees are mandatory for all students who meet the eligibility criteria. All LCSA fees are assessed upon College registration, meeting eligibility, and are due and payable under the same terms and conditions as tuition fees.

Fees for the LCSA Legal coverage are as follows:

Provides 1 year of coverage from beginning of term billed in. \$20.00

You may opt-out of the plan by completing a waiver form before the opt-out deadline. Any questions regarding LCSA Fees including the Legal 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 considered a "mandatory non-instructional fee" and, therefore, is subject to Alberta Advanced Education Public Post-Secondary Institutions' Tuition Fees Regulations. Any subsequent changes to this fee rate will 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:

- Civil Engineering Technology
- Engineering Design Technology
- Geomatics Engineering Technology

For further information about mobile device fees, go to [www.lethbridgecollege.ca/mobilelearning](http://www.lethbridgecollege.ca/mobilelearning) (<https://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.

Learning Credit Course	Fee
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

\*Any PLA fees for Practical Nurse Refresher program are subject to a different fee. Please contact [practicalnurse@lethbridgecollege.ca](mailto:practicalnurse@lethbridgecollege.ca) for details.

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

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 - Digitex.

## Parking

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

## Accommodations

To view the 2022-23 residence accommodation rates, please refer to the online information at [lethbridgecollege.ca/student-experience/housing](http://lethbridgecollege.ca/student-experience/housing) (<https://lethbridgecollege.ca/student-experience/housing/>).

# PROGRAMS

## PROGRAMS A-Z

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.

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## Academic Upgrading

Program Office: 403.394.7338 • upgrading@lethbridgecollege.ca

At Lethbridge College, we understand a career path doesn't always progress in a straight line. So we've created different pathways to help you achieve your life and career goals in a way that works for you. Your future is waiting and the Academic Upgrading program will get you there.

Our upgrading courses, which are accepted in lieu of high school courses at Alberta's post-secondary institutions, can help you change directions or choose a new path to professional success. Whether you need to complete high school equivalency courses or upgrade your marks, Academic Upgrading will prepare you for where you want to go.

## Your Investment

Program fees will vary. To view fee information, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Students in the Academic Upgrading program who accumulate at least 18 credits in academic upgrading 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.

## ADMISSIONS

New students are accepted into the Academic Upgrading program for courses beginning in the Fall (September) or Winter (January).

## General Admissions 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.

## 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.

Course	Title	Credits
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
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.

## TRANSFERS

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 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.

## CAREERS

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.

## Administrative Office Professional

Program Office: 403.320.3213 • office@lethbridgecollege.ca

For you, it's all about the details. And in the one-year Administrative Office Professional program, you'll gain the skills and knowledge you need to be the detailed-oriented backbone of the workplace. When you walk out of the program, you'll know everything you need to excel in the office.

In our small classes taught by experienced instructors who have been in the positions you aspire to, you'll learn all the details it takes to keep the office running smoothly, from bookkeeping to office procedures, to conference planning and more. And you'll learn using the latest industry-standard software to complete your assignments.

### Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://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](http://www.lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

### Graduation

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

## ADMISSIONS

New students are accepted into the Administrative Office Professional program in the Fall (September) term.

### General Admissions Requirements

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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
ACC-1146	Bookkeeping	3
AOP-1142	Office Procedures	3
ENG-1159	Writing for the Workplace	3
KEY-1140	Document Processing	3
COM-1162	Interpersonal Relationships and Communications	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
AOP-1143	Office Procedures II	3
AOP-1145	Meeting and Conference Planning	3
CPU-1165	Business Applications II	3
CPU-2254	Basic Desktop Publishing	3
HUM-1156	Business Ethics	1.5

BUS-1177	Entrepreneurship	3
<b>Credits</b>		<b>16.5</b>
<b>Total Credits</b>		<b>31.5</b>

## TRANSFERS Medicine Hat College

Graduates of Lethbridge College's Administrative Office Professional certificate program are eligible to transfer into Medicine Hat College's Administrative Office Management diploma program.

## CAREERS

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
- Virtual Assistant

# Agricultural and Heavy Equipment Technician

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

If you're eager to work on farm equipment, commercial vehicles or heavy machinery, the one-year Agricultural and Heavy Equipment Technician certificate equips you with the knowledge and experience needed to start working right away and continue on to an apprenticeship.

In just two semesters, you'll be trained on the latest in diagnostic technologies and tools and get the chance to test your skills working on a wide range of on and off-road vehicles and farm equipment.

## Your Investment

Program fees will vary. To view the fee information for your program, go to [lethbridgecollege.ca/programs/](https://lethbridgecollege.ca/programs/) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

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

## 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 Admissions 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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>18</b>

### Term II

AHM-1130	Electrical and Electronics	6
AHM-1131	Diesel Engines	6
AHM-1132	Diesel Fuel Systems	6
AHM-1135	Mobile Hydraulics	3
<b>Credits</b>		<b>21</b>
<b>Total Credits</b>		<b>39</b>

## Apprenticeship Pathway

Students who have successfully completed Lethbridge College's *Agricultural and Heavy Equipment Certificate program* can continue to obtain their Journeyman Certification by registering with Apprenticeship Alberta. For more information about Alberta's apprenticeship requirements go to: <https://tradesecrets.alberta.ca/>



## CAREERS

Upon completion of the program, you'll be able to write exams for the first two years of Agricultural Equipment Technician or Heavy Equipment Technician. You'll also be eligible to enter the Alberta Apprenticeship program. No matter which road you take, you'll be ready to begin a career in many diverse fields, including:

- Agricultural Equipment Service
- Construction Equipment Service
- Heavy Equipment Service
- Journeyman Agricultural Equipment Technician
- Journeyman Heavy Equipment Technician
- Mining Equipment Service
- Mobile Repair Service
- Oilfield Equipment Service
- Service Manager/Shop Foreman
- Trucking Equipment Service



# Agricultural Equipment Technician Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

Take your agricultural and mechanical skills to the next level with specialized courses and one-on-one instruction from a qualified tradesperson in the Agricultural Equipment Technician Apprenticeship program. Over four years, you'll mix on-the-job training with technical experience, learning to maintain, diagnose and repair or overhaul equipment such as tractors, combines, sprayers and more.

Gaining all the ag mechanic skills you need during your apprenticeship, you'll work with your hands to diagnose electrical, mechanical and hydraulic problems – ensuring downtime is minimized and the harvest is maximized. The agriculture industry is crucial to our food supply and keeping farm equipment running is a necessity you'll be able to provide as an agricultural equipment technician.

**Become an essential part of the agriculture industry, and apply for your apprenticeship today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

### Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

### Learning Environment

Apprenticeship programs require eight weeks of classroom training each year in addition to on-the-job training.

### Courses include:

- Diesel fuel injection systems
- Electrical welding and oxy fuel cutting

- Electronic fuel management
- Spraying equipment
- Powertrain (specific to off-road)
- Seeding and precision farming systems

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/0321\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/0321_outline.pdf)) for the Agricultural Equipment Technician Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

When you complete your apprenticeship, you'll be ready for your future in agriculture in positions such as:

- Technician
- Sales Representative
- Service Representative
- Manager

[https://tradesecrets.alberta.ca/trades-occupations/profiles/0322/Agricultural Equipment Technician](https://tradesecrets.alberta.ca/trades-occupations/profiles/0322/Agricultural_Equipment_Technician)

# Agriculture Science - Bachelor of BAgSc

Program Office: 403.382.6991 • agsciences@lethbridgecollege.ca

Be ready to grow in a one-of-a-kind degree program, where you'll receive a unique agriculture education that combines the fundamentals of plant and soil science, the reality of growing-condition variation, and the application of modern precision agriculture techniques.

As a student, you'll gain an in-depth understanding of plant physiology, soil fertility, crop production and integrated pest management, setting the stage for an understanding of successful crop production. You'll learn about the effects of topography and crop nutrient variability and understand challenges like weeds, pests and water availability. Graduates of the program will be welcomed as members at agriculture companies, at equipment dealerships and as agronomy consultants.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program (agriculture-science-bachelor)

## Graduation

Upon successful completion of all program requirements, students are awarded a Bachelor of Agriculture Science degree.

## ADMISSIONS

New student are accepted into the Bachelor of Agriculture Science program for Fall (September) term.

## General Admissions 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 applicants must satisfy the following requirements (or equivalencies):

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

Students who have completed the Agriculture Science – Agronomy diploma from Lethbridge College will be accepted directly into the Bachelor of Agriculture Science program. A minimum GPA of 2.00 or equivalent is required for admission.

Students who have completed the Agriculture Science – Animal Science or Agriculture Business diploma will be eligible for entry following completion of the second year of the Agronomy diploma programming. A minimum GPA of 2.00 or equivalent is required for Admission.

Transfer students are required to have a diploma in Agriculture Science – Agronomy or equivalent, or a related bachelor's degree in agriculture. 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

requirements with a residency requirement of 50%. A minimum GPA of 2.00 or equivalent is required for admission.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
See the Agriculture Science - Agronomy Diploma.		30
<b>Credits</b>		<b>30</b>
<b>Year 2</b>		
See the Agriculture Science - Agronomy Diploma.		30
<b>Credits</b>		<b>30</b>
<b>Year 3</b>		
<b>Term I</b>		
AGS-3385	Precision Agriculture II	3
IRR-3350	Irrigation Management	3
PLT-3350	Plant Physiology	3
STS-1155	Descriptive Statistics	3
Open Elective <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
AGS-3382	Telematics and Sensors	3
CHM-3350	Agriculture Chemistry	3
PLT-3351	Plant Pathology	3
RSR-3350	Analytics and Experimental Design	3
Social Science Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Term I</b>		
AGS-4450	Agriculture Issues	3
AGS-4483	Harvest and Crop Storage Technology	3
ENV-3383	Environmental Soil Physics	3
RSR-4450	Senior Project I	3
Science Elective		3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
AGS-4481	Crop Production Technology	3
COM-3350	Strategic Consulting	3
IRR-4450	Irrigation Technology	3
RSR-4451	Senior Project II	3
Science Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Any 3-credit post-secondary course will meet this requirement.

## Approved Electives

Course	Title	Credits
<b>Open Elective</b>		
Any 3-credit post-secondary level course		3
<b>Science Electives</b>		
AGS-3381	Agriculture Equipment	3
AGS-4485	Livestock Technology	3

BIO-1195	Introduction to Aquaponics Principles	3
ENV-2280	Contaminant Management	3
ENV-3397	Environmental Assessment and Auditing	3

**Social Science Electives**

ANT-1195	Cultural Anthropology	3
INS-1155	Introduction to Indigenous Studies	3
PSC-2260	International Relations	3
SOC-2273	Multicultural Issues	3
SOC-3355	Cultural Diversity in Conservation Enforcement	3

## CAREERS

Your degree will prepare you for a career in a wide range of fields, including:

- Primary Production (food production systems)
- Farm Equipment Technicians
- Agronomy Sales (crop inputs)
- Agronomy Consulting
- Environmental Assessment
- Research

## Agriculture Sciences

Program Office: 403.382.6991 • agsciences@lethbridgecollege.ca

Plant the seeds for your future success in Lethbridge College's Agriculture Sciences program. Choose from majors in Agriculture Business, Agronomy or Animal Science, and be ready to make a difference working in one of Canada's most diverse and vital industries. You'll learn from instructors with first-hand experience, dividing your time between classroom instruction, benchtop processes, industry involvement and practical application.

In these programs, you'll learn the scientific background to why we do what we do in agriculture. In addition to learning from textbooks and computers, you'll also get a foundation in the ever-changing sector through workshops, tours and involvement with alumni and specialized ag partners. This program ladders directly into the Bachelor of Agriculture Science program.

### Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

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

## ADMISSIONS

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

## General Admissions 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 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)
- Applicants intending to ladder into the Bachelor of Agriculture Science Degree will also be required to have Biology 30 and Chemistry 30 at the point they apply to the degree.

## CURRICULUM

All three 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.

## Common First Year Requirements

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
ACC-1170	Financial Accounting I	3
BIO-1167	Botany	3
BIO-1175	Animal Science	3
COM-1162	Interpersonal Relationships and Communications	3
MKT-1152	Commodity Marketing	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
AGS-1150	Agriculture Finance	3
AGS-2255	Sustainable Agriculture	3
BUS-1166	Business Law	3
ENG-1150	Composition	3
SOL-1150	Agriculture Soils	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
Students must select one major from the following:		
Agriculture Business Major		
Agronomy Major		
Animal Science Major		
<b>Credits</b>		<b>0</b>
<b>Total Credits</b>		<b>30</b>

## Major Requirements

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

### Agriculture Business Major

Course	Title	Credits
<b>Year 2</b>		
<b>Term I</b>		
ACC-1175	Financial Accounting II	3
AGS-2250	Canadian and World Agriculture	3
BUS-1170	Introduction to Management	3
ECN-1180	Microeconomics	3
PLT-2262	Field Crops	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
AGS-2251	Agriculture Policy	3
BUS-2292	Business Finance	3
ECN-2253	Macroeconomics	3
MKT-1188	Introduction to Marketing	3
STS-1155	Descriptive Statistics	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>30</b>



## Agronomy Major

Course	Title	Credits
<b>Year 2</b>		
<b>Term I</b>		
AGS-2280	Precision Agriculture I	3
ECN-1180	Microeconomics	3
PLT-2253	Integrated Pest Management I	3
PLT-2260	Special Crops	3
PLT-2262	Field Crops	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
IRR-2252	Irrigation Systems	3
PLT-1155	Pasture and Forage Production	3
PLT-2254	Integrated Pest Management II	3
PLT-2264	Greenhouse Management	3
SOL-2250	Soil Fertility	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>30</b>

- Agricultural Research
- Agri-business
- Agri-services
- Farm Finance
- Farming
- Ranching

## Animal Science Major

Course	Title	Credits
<b>Year 2</b>		
<b>Term I</b>		
ANM-2250	Cow Calf Management	3
ANM-2251	Animal Health	3
BIO-2263	Animal Physiology I	3
ECN-1180	Microeconomics	3
PLT-2262	Field Crops	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
ANM-2252	Intensive Livestock Production	3
ANM-2253	Beef Feedlot Management	3
ANM-2254	Animal Nutrition	3
BIO-2264	Animal Physiology II	3
PLT-1155	Pasture and Forage Production	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>30</b>

## TRANSFERS

### University of Lethbridge

Graduates of Lethbridge College's Agriculture Sciences diploma program with a cumulative GPA of at least 2.50 are eligible for admission into the University of Lethbridge's Post-Diploma Bachelor of Arts (Agricultural Studies) or Bachelor of Science (Agricultural Studies) programs. Admitted students will be third-year degree level students in the university's Faculty of Arts and Science in all respects. For more information, please see an academic advisor and visit <https://www.uleth.ca>

## CAREERS

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

# 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 terms 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 and Cook 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. Parts Technician training is also offered in a WATS format with the added option of Hy-flex delivery, you can choose to do a portion of the training on-line.

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](http://www.tradesecrets.alberta.ca)

(<https://www.tradesecrets.alberta.ca>) Contact information is available at the following link: <http://www.tradesecrets.alberta.ca/contactait/> (<https://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> (<https://lethbridgecollege.ca/departments/corporate-and-continuing-education/blue-seal-and-trades-certification/>)

**Click on + to learn more about each program below.**

## Agricultural Equipment Technician

Chair: 403.320.3411  
[tradeslc@lethbridgecollege.ca](mailto: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 traveling to farms for service calls or working in service centers. 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](mailto: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.

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)**

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 blueprints, 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.

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.
- 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](mailto:electricaldistance@lethbridgecollege.ca) or the Program Chair at 403.320.3366

## Heavy Equipment Technician

Chair: 403.320.3411  
[tradeslc@lethbridgecollege.ca](mailto: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](mailto: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. You also have the option to attend much of your class on-line if that suits you.

## 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, pumps, 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/or 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.

[lethbridgecollege.ca/trades](https://lethbridgecollege.ca/trades) (<https://lethbridgecollege.ca/trades/>)

# Architectural Animation Technology

Program Office: 403.320.3468 • [archanimation@lethbridgecollege.ca](mailto:archanimation@lethbridgecollege.ca)

Learn to take an idea for a space and create it virtually to ensure it's up to code and beyond client expectation before construction begins. In the Architectural Animation Technology program, you'll learn to communicate spatial ideas and basic construction visualization techniques to a variety of industries, including architecture, interior design and digital environments.

Our unique, two-year diploma program is offered through both fully online and in-person delivery formats and will give you specialized production knowledge and visual communication skills in digital rendering and animation to succeed in the world of architecture. You'll work on projects that simulate real world design problems and gain professional experience in both commercial and residential architectural design communication.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

A personal computer, a tablet/iPad and pencil bundle, and a VR headset will be required to complete the Architectural Animation Technology Program. Learn more here: <https://www.lethbridgecollege.ca/mobilelearning> (<https://www.lethbridgecollege.ca/mobilelearning/>).

Email the Architectural Animation Technology department for more information on specific costs.

## Unique Program Feature

Students who have graduated from the two-year Interior Design Technology program will only require one additional year to complete the Architectural Animation Technology program. Graduates of the Architectural Animation Technology program will only require one additional year to complete the Interior Design Technology program.

## Graduation

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

## ADMISSIONS

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

## General Admissions 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)

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
IDM-1158	Representations I	3
IDM-1163	Design History I	3
IDM-1179	Design Fundamentals	3
VXR-1150	Introduction to Immersive Technology	3
VXR-1160	Art and Design for Extended Reality	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
ENG-1159	Writing for the Workplace	3
IDM-1159	Digital Ideation	3
IDM-1173	Design History II	3
IDM-1181	Residential Design Studio	3
IDM-1190	Digital Drafting	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
AAT-2250	Visual Communication	3
AAT-2251	Building Systems and Code	3
AAT-2260	Immersive Modeling	3
AAT-2270	Production	3
IDM-2290	Bldg Information Modeling	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>18</b>
<b>Total Credits</b>		<b>63</b>

## Practicum Experience Requirements

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

## CAREERS

Our diploma program 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

# Automotive Service Technician Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

If you're already working in the automotive industry, the Automotive Service Technician Apprenticeship program will give your career as a mechanic an added boost. Over the duration of this four-year apprenticeship, you'll develop your confidence through a mix of on-the-job training, technical experience and theory.

You'll spend 80 per cent of your time with a qualified service technician in the shop. For the remaining time, you'll be in our classrooms and shops, learning from skilled instructors and training on the same industry-standard equipment you'll use on the job. When you graduate, you'll have the theory behind the mechanics and the hands-on experience employers look for.

New Apprentice Orientation Booklet (<https://lethbridgecollege.ca/document-centre/publications/miscellaneous-publications/apprentice-orientation-booklet/>)

**Take your career as an automotive mechanic further, and apply for your apprenticeship today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

To arrange a tour, call 403-320-3322 or toll-free 1-800-572-0103.

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757

Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require eight weeks of classroom training each year, in addition to on-the-job training.

### Courses include:

- Emission control systems
- Fuel systems
- Hybrid electrical vehicles
- Vehicle system management, integration and vehicle networks
- Manual transmissions, transaxles and clutches
- Suspension and steering

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/009\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/009_outline.pdf)) for the Automotive Service Technician Apprenticeship.

New Apprentice Orientation Booklet (<https://lethbridgecollege.ca/document-centre/publications/miscellaneous-publications/apprentice-orientation-booklet/>) MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

After completing your apprenticeship, you'll be ready for work in:

- Service Facilities
- Automotive Shops
- Specialty Repair Shops
- Car and Truck Dealerships
- Organizations with Vehicle Fleets

[https://tradesecrets.alberta.ca/trades-occupations/profiles/009/Automotive Service Technician](https://tradesecrets.alberta.ca/trades-occupations/profiles/009/Automotive%20Service%20Technician)



# Automotive Systems

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

If you feel your best working under the hood of a car, take your interest in vehicles into the Automotive Systems program. This one-year certificate program will prepare you for an in-demand career in automotive services shops and mechanical garages through a curriculum designed in consultation with industry members.

You'll get lots of hands-on practice to develop your understanding of automotive technology, from simple components to advanced computerized vehicle systems. Our experienced instructors will work with you in our modern shops to help you understand what makes vehicles tick.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded an Automotive Systems certificate.

## ADMISSIONS

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

## General Admissions 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 Automotive Systems program:

- Physics, chemistry and science
- Grade 12 math and English

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
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	Auto Directional Control Systems	3

AST-1135	Basic Maintenance	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>19.5</b>
<b>Total Credits</b>		<b>37.5</b>

**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 hours towards first period work experience and hours towards second period work experience of the Automotive Service Technician Apprenticeship program.

## Apprenticeship Pathway

Students who have successfully completed Lethbridge College's *Automotive Systems Certificate program* can continue to obtain their Journeyman Certification by registering with Apprenticeship Alberta.

For more information about Alberta's apprenticeship requirements go to: <https://tradesecrets.alberta.ca/>



## Practicum Experience Requirements

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

## CAREERS

Upon successful completion of the program, you'll be awarded a total of 600 hours of experience credit and be prepared to write first- and second-year Automotive Service Technician apprenticeship exams. Wherever your future takes you, you'll be able to drive away from Lethbridge College and into positions such as:

- Apprentice Automotive Service Technician
- Automotive Systems Certificate Instructor
- Equipment Salesperson
- Journeyman Automotive Service Technician
- Mobile Repair Service Technician
- Service Manager

- Shop Foreman
- Shop Owner

## Baker Apprenticeship

Program Office: 403-320-3245 • [culinary@lethbridgecollege.ca](mailto:culinary@lethbridgecollege.ca)

Blend your passion for baked goods into a career you love in the Baker Apprenticeship. If you have a genuine interest in baking, enjoy chemical processes, possess a keen sense of taste and smell, and are creatively inclined, you have all the ingredients to create a masterpiece in the Baker Apprenticeship.

The Baker Apprenticeship program will prepare you for a host of opportunities through an eight-week apprenticeship format designed to prepare you for Red Seal designation. Your newly acquired skills and expertise from the classroom will serve you well on the job as you master the art of baking, learning from award-winning instructors who have a true commitment to their craft.

**Pursue your passion for baking – apply to the Baker Apprenticeship program today!**

### ADMISSIONS

#### Academic requirements

- Successful completion of English 10-2, Math 10-3, or a pass mark in all five Canadian General Educational Development (GED) tests, or entrance exam.
- English 30-2, Math 30-3, Physics 20 or Chemistry 20 or Science 20, and related career and technology studies courses are recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

### Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

To arrange a tour, call 403-320-3322 or toll-free 1-800-572-0103.

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

### Courses include:

- Standard Workplace Safety
- Yeast Raised Goods
- Cookies, Cakes, Pastries and Quick Breads
- Creams, Custards, Fillings and Icings
- Trade Mathematics

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/024\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/024_outline.pdf)) for the Baker

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

After completing the 3rd year training and exam you'll be ready to write the Red Seal exam and pursue your career in:

- Specialty Bakeries
- Restaurants
- Hospitals
- Institutions
- Catering Companies
- Camps and Hotels
- Supermarkets

<https://tradesecrets.alberta.ca/trades-occupations/profiles/024/> Baker

# Business Administration

Program Office: 403.320.3213 • [business@lethbridgecollege.ca](mailto:business@lethbridgecollege.ca)

You're ambitious, determined and motivated to succeed. Lay the foundation for your future achievements in the fast-paced, competitive business world with a diploma in Business Administration. You'll acquire basic business skills in your first year, and in your second, you'll tailor your education to your career aspirations in one of three majors: accounting, management and business operations (name change pending government approval). The skills you learn will help you be successful in all avenues of business, including companies of all sizes, your own small business, government organizations and not-for-profits.

With transfer agreements in place at institutions across Canada and around the globe, you can easily continue your education to earn your bachelor's degree or step right into a career upon graduation. The Business program is a great stepping-stone. If you are sure you want to pursue a career in anything business – start with us! If you are unsure of what you want to do or what career to pursue, you will learn skills that will benefit you in any career you settle on. Whatever direction you go in, you'll be dressed for success with a Business Administration diploma.

## Your Investment

Program fees will vary. To view the fee information for your program, go to [lethbridgecollege.ca/programs/](https://lethbridgecollege.ca/programs/) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

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

## ADMISSIONS

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

Note: Prospective students wishing to spread their courses over an additional term and/or commence their studies in the Winter term 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 Financial Accounting II (3 credits) prior to September in order to complete the program within two years. This means completing ACC-1175 Financial Accounting II (3 credits) in the Spring (May) term.

## General Admissions 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)

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
ACC-1170	Financial Accounting I	3
ACC-1175	Financial Accounting II	3
BUS-1166	Business Law	3
BUS-1170	Introduction to Management	3
BUS-1177	Entrepreneurship	3
BUS-1185	Business Computer Applications	1.5
COM-1162	Interpersonal Relationships and Communications	3
CPU-1165	Business Applications II	3
ECN-1180	Microeconomics	3
ENG-1159	Writing for the Workplace	3
MKT-1188	Introduction to Marketing	3
<b>Credits</b>		<b>31.5</b>
<b>Year 2</b>		
Students must select one major from the following:		30
Accounting		
Business Operations		
Management		
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>61.5</b>

## Accounting Major

Accounting is often called "the language of business". Accountants engage in a wide variety of activities related to the financial health of any type of organization including service and manufacturing industries, public accounting, government, and the not-for-profit sector. This program provides the theory and real-life skills to be ready to succeed in the complex and evolving business environment. Graduates of this program can pursue a Chartered Professional Accountant (CPA) designation in addition to being successful in any kind of business-related position.

As a very skills-based diploma, and our most transferable major, Accounting graduates are well prepared to take on many kinds of business roles and have successfully entered many business jobs and careers on the basis of their accounting diploma - traditional accounting roles but also many types of business related roles.

Course	Title	Credits
<b>Year 2</b>		
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 (See elective lists A and B)		3
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>30</b>

## Business Operations Major

Operating a business takes adaptability and innovation. You will develop the strategies that make a business successful. While theory and practical application are foundational to this program, creativity is an integral element. You will learn skills that provide an understanding of customers, create awareness of external perspectives, and establish business objectives such as driving revenue, steering growth, adding value, and building loyalty.

Have an entrepreneurial spirit? The Business Operations major might be right for you. Ideal for individuals planning entrepreneurial careers, graduates will have a great start to opening their own business or entering jobs and careers in many business fields including sales and marketing.

**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 (3 credits) in your program.

Course	Title	Credits
<b>Year 2</b>		
BUS-2288	Project Management	3
Cluster 1 (Choose 3 of 6)		9
BUS-2277	Retailing Strategies	
BUS-2281	Logistics	
BUS-2283	Integrated Marketing Communication	
BUS-2287	Business Analytics and Decision Making	
BUS-2290	Business Research Methods	
BUS-2293	Advanced Marketing Strategies	
Cluster 2 (Choose 2 of 5)		6
BUS-2268	Organizational Behavior	
BUS-2275	International Business	
BUS-2285	Advanced Small Business Management	
BUS-2286	Introduction to Supply Chain Management	
BUS-2298	Human Resource Management	
Cluster 3 (Choose 1 of 3)		3
ACC-2250	Management Accounting I	
ECN-2253	Macroeconomics	
STS-2250	Statistics	
Cluster 4 (Choose 1 of 2)		3
BUS-2276	Financial Planning	
BUS-2292	Business Finance	
Approved Electives (Choose 2 from List A and/or List B)		6
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>30</b>

## 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 human resource management, banking, managing a business, not-for-profit, charitable and, government organizations.

Course	Title	Credits
<b>Year 2</b>		
BUS-2268	Organizational Behavior	3
BUS-2275	International Business	3
BUS-2278	Industrial and Labour Relations	3
BUS-2285	Advanced Small Business Management	3
BUS-2288	Project Management	3
BUS-2292	Business Finance	3
BUS-2298	Human Resource Management	3
STS-2250	Statistics	3
Approved Electives (See elective lists A and B)		6
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>30</b>

### List A - Approved Business Electives

Course	Title	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-2268	Organizational Behavior	3
BUS-2275	International Business	3
BUS-2276	Financial Planning	3
BUS-2277	Retailing Strategies	3
BUS-2278	Industrial and Labour Relations	3
BUS-2281	Logistics	3
BUS-2283	Integrated Marketing Communication	3
BUS-2285	Advanced Small Business Management	3
BUS-2286	Introduction to Supply Chain Management	3
BUS-2287	Business Analytics and Decision Making	3
BUS-2288	Project Management	3
BUS-2290	Business Research Methods	3
BUS-2292	Business Finance	3
BUS-2293	Advanced Marketing Strategies	3
BUS-2298	Human Resource Management	3
CPU-2254	Basic Desktop Publishing	3
ECN-2253	Macroeconomics	3
FWK-2283	Industry Placement	3
FWK-2284	Industry Placement II	3
MKT-2260	International Marketing	3
MKT-2279	Applied Sales	3
STS-2250	Statistics	3
TAX-2251	Taxation	3
BUS-11XX	Unspecified <sup>1</sup>	3
BUS-22XX	Unspecified <sup>1</sup>	3



MKT-11XX	Unspecified <sup>1</sup>	3
MKT-22XX	Unspecified <sup>1</sup>	3

<sup>1</sup> Unspecified credits for post-secondary Business and Marketing courses will be evaluated on a case-by-case basis.

## List B - Approved Non-Business Electives

(a maximum of 3 credits may be included from List B Approved Non-Business Electives.)

Course	Title	Credits
AGR-2286	Agricultural Business Management	3
BIO-1151	Environmental Issues	3
BLK-1151	Blackfoot Language I	3
CPL-1150	Community Service Learning	3
FWK-2283	Industry Placement	3
FWK-2284	Industry Placement II	3
HUM-1150	Logic	3
HUM-1155	Ethics	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
INS-1155	Introduction to Indigenous Studies	3
PED-1123	Academic Success in Athletics I	1.5
PSC-1161	Introduction to Politics	3
PSC-1165	Canadian Government	3
PSY-1160	Introduction to Psychology	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	3
SPN-1150	Introductory Spanish	3

## Practicum Experience

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

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Business Administration diploma program are eligible to receive 30 credits towards a number of post-diploma bachelor's degrees in Commerce, Management, Human Resources/Labour Relations, and Professional Arts at Athabasca University. To explore options, please visit [www.athabascau.ca/](https://www.athabascau.ca/)

It is highly recommended, but not mandatory, that BUS-2292 Business Finance (3 credits) and STS-2250 Statistics (3 credits) be included in your Lethbridge College diploma.

## Chartered Professional Accountant designation

Graduates of Lethbridge College's Business Administration – Accounting major are eligible to receive credit for nine of the fourteen required courses to pursue Canada's only professional accounting designation - Chartered Professional Accountant (CPA). Details can be found at <https://www.cpaalberta.ca/Become-a-CPA>

## College of the Rockies (*pending renewal*)

Graduates of Lethbridge College's Business Administration – Accounting, Management, or Business Operations majors are eligible to receive full block transfer into the Bachelor of Business Administration in Sustainable Business Practices degree at College of the Rockies, 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 on a first-qualified, first-in basis.

## Griffith University, Australia

Graduates of Lethbridge College's Business Administration diploma program are eligible to transfer credit towards the completion of a Bachelor of Business degree (all majors available) at Griffith University, in Australia. All students will be provided with an approved course completion pathway at time of application into a Griffith program. For more information, please visit [www.griffith.edu.au/credit](http://www.griffith.edu.au/credit) (<https://www.griffith.edu.au/credit/>)

## Okanagan College

Graduates of Lethbridge College's Business Administration – Accounting, Management, or Business Operations diploma program with a minimum GPA of 2.3, or 67%, are eligible for admission into the third year of the Bachelor of Business Administration (BBA) degree program at Okanagan College.

## Royal Roads University

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

## Robert Gordon University, Scotland

Graduates of Lethbridge College's Business Administration – Accounting, Management, or Business Operations diplomas with a minimum GPA of 2.5 will be accepted into the third year of a BA(Hons) in Events Management, Fashion Management, International Hospitality Management, International Tourism Management, Management, Management with Marketing, Management with HRM, or International Business Management at Robert Gordon University, in Scotland, provided all academic and English language entry requirements are met and space remains available.

## Southern Alberta Institute of Technology (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. Graduates of Lethbridge College's Business Administration – Management diploma are eligible for admission into the third year of SAIT's Bachelor of Business Administration Management (BBAM) or Human Resource Management (BBAH) degree programs. Please note, some bridging courses are required. Students are encouraged to contact Academic Advising at SAIT for more information.

## 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](https://www.uleth.ca) (<https://www.uleth.ca>) for further information.

## CAREERS

A variety of opportunities will await you once you graduate. You'll have the option to continue your studies, obtain a professional designation or immediately pursue your career in fields such as:

- Accounting
- Advertising
- Agri-Business
- Banking
- E-commerce
- Energy Industry
- Entrepreneurship
- Financial Services
- Human Resources
- Management
- Marketing
- Project Management
- Retail Management
- Running your own business
- Sales
- Start-up Business
- Taxation
- Technology

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

# Carpenter Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

If you take pride in creating with your hands and want to hone your expertise in woodcraft, it's time to take your carpentry career further with the Carpenter Apprenticeship program. The Carpenter Apprenticeship prepares you for everything from framing to concrete work and all the finishing touches in between.

Offered through Competency Based Apprenticeship Training (CBAT), the Carpenter Apprenticeship mixes on-the-job training with technical theory, splitting your time between the field and specialized courses. In our state-of-the-art shops, you'll work with the latest industry-standard equipment and learn from instructors as they share the tips, techniques and practical experiences they learned on the job.

New Apprentice Orientation Booklet (<https://lethbridgecollege.ca/document-centre/publications/miscellaneous-publications/apprentice-orientation-booklet/>)

**Build your future today – apply to the Carpenter Apprenticeship!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 10-2 and Math 10-3, or a pass mark in all Canadian General Educational Development (GED) tests, or entrance exam.
- English 30-2, Math 30-3, Physics 20 or Chemistry 20 or Science 20 and related Career and Technology Studies (CTS) recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

To arrange a tour, call 403-320-3322 or toll-free 1-800-572-0103.

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757

Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require 8 weeks of classroom training each year in addition to on-the-job training.

## Courses include:

- Hand and power tools
- Foundation
- Residential roofs
- Estimating and plans
- Building layout
- Concrete

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/002\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/002_outline.pdf)) for the Carpenter Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

You'll have plenty of options available to you following the completion of your apprenticeship. Keep your career goals in mind as you find employment as a(n):

- Apprentice Carpenter
- Journeyman Carpenter
- Foreman/Forewoman
- Subcontractor
- Construction Superintendent
- Contractor

<https://tradesecrets.alberta.ca/trades-occupations/profiles/002/Carpenter>

## Child and Youth Care

Program Office: 403.320.3393 (p. 3) •  
humanservices@lethbridgecollege.ca

Do you have a desire to enhance the development and lives of children, youth and families? Then follow your heart to a career that can change someone's life by enrolling in the two-year Child and Youth Care diploma program. You'll learn how to enhance the development of children, youth and families, working 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.

Through a blend of theory and hands-on experiences, you'll learn how to reach out to those who are struggling and make a difference in the lives around you. Your theoretical knowledge will come to life during practicum experiences that put you in the middle of this rewarding career before you even graduate.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

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

## 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 Admissions Requirements

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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CYC-1158	Communications in CYC Practice	3
CYC-1169	Observation, Reporting and Assessment	3
CYC-1173	Foundations and Roles of CYC	3
ENG-1150	Composition	3
HSP-1151	Family Systems and Development	3
PSY-1170	Human Development Across the Lifespan	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
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	3
<b>Credits</b>		<b>18</b>

### Year 2

#### Term I

CYC-2251	Family Support and Intervention	3
CYC-2255	CYC Clinical Practice II	6
CYC-2272	Family Violence	3
CYC-2280	Counselling Techniques II	3
<b>Credits</b>		<b>15</b>

#### Term II

CYC-2260	Mental Health/Substance Abuse in CYC	3
CYC-2269	Case Management and Evaluation	3
CYC-2285	CYC Clinical Practice III	6
CYC-2253	Group Process	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>66</b>

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

### Program Practicum Overview

Students will complete 3 practicums during their program which allows them to apply concepts taught in the classroom in CYC practice settings. Each practicum is a block practicum where the student works full time in the practicum site for the duration of the practicum. CYC 1178 is 6 weeks, CYC 2255 is 7 weeks, and CYC 2285 is 7 weeks. Students must complete at least one practicum outside of the Lethbridge area (100 km away from Lethbridge). Students will be required to work a variety of shifts in their practicum sites.

Any questions about practicum can be directed to the Practicum Coordinator: Kathleen Vink [kathleen.vink@lethbridgecollege.ca](mailto:kathleen.vink@lethbridgecollege.ca) (<http://kathleen.vink@lethbridgecollege.ca>)

## TRANSFERS

### Athabasca University

Lethbridge College's Child and Youth Care 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 in the Bachelor of Management degree (Major) at Athabasca University. Diploma graduates are awarded up to 30 transfer credits towards the Bachelor of Commerce Post Diploma or the Bachelor of Human Resources/Labour Relations Post Diploma at Athabasca University.

### Griffith University, Australia

Graduates of Lethbridge College's Child and Youth Care diploma program are eligible to transfer credit towards the completion of a Bachelor of Human Services or Bachelor of Child and Family Studies at Griffith University, in Australia. All students will be provided with an approved course completion pathway at time of offer of admission into a Griffith program. For more information, please visit [www.griffith.edu.au/credit](http://www.griffith.edu.au/credit) (<https://www.griffith.edu.au/credit/>)

### MacEwan University

Graduates of Lethbridge College's Child and Youth Care diploma program with a GPA of 2.7 or higher may be eligible to receive up to 60 credits and entry into the third year of the Bachelor of Child and Youth Care degree at MacEwan University.

## CAREERS

When you graduate, you'll be ready to work with children, youth and families 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



# Civil Engineering Technology

Program Office: 403.320.3468 • [engineeringtech@lethbridgecollege.ca](mailto:engineeringtech@lethbridgecollege.ca)

If you envision a future shaping the look and design of a community from its buildings to bridges to water and sewer systems, then Civil Engineering Technology is the program for you. In this nationally and internationally accredited program, you'll turn your strong mathematical and science skills into the creative and logical mind of a civil engineering technologist.

Starting with a comprehensive introduction to engineering fundamentals in your first year and developing a practical understanding of engineering design in your second, you'll become familiar with the latest tools and software, use industry-standard computer applications to complete your projects and even have opportunities to interact with today's engineering technology professionals.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://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](https://www.lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

## Graduation

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

## Nationally and Internationally Accredited

The Civil Engineering Technology program is nationally accredited with Technology Accreditation Canada (TAC). A TAC *nationally accredited program represents excellence in education, providing students, parents, faculty and industry with the confidence that the program has met the standards of the profession and graduates have the requisite knowledge and skill set to competently enter the workforce.* - Technology Accreditation Canada.

As a result of the accreditation with TAC, all graduates of the Civil Engineering Technology program are also internationally accredited.

## ADMISSIONS

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

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>16.5</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
CIV-2260	Highway Design	3
CIV-2262	Structural Design I	6
CIV-2271	Water Resource Design	3
CIV-2274	Infrastructure Design	3
CIV-2275	Structural Design II	3
RSR-2265	Applied Research II	1.5
<b>Credits</b>		<b>19.5</b>
<b>Term III</b>		
<b>(Optional)</b>		
CIV-2298	Work Experience	1.5
<b>Credits</b>		<b>1.5</b>
<b>Total Credits</b>		<b>73.5</b>

## 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.

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Civil Engineering Technology diploma program are eligible to receive 30 credits towards a number of post-diploma bachelor's degrees in Commerce, Management, Human Resources/Labour Relations, and Science at Athabasca University. To explore your options, please visit [www.athabascau.ca](http://www.athabascau.ca) (<https://www.athabascau.ca/>)

### Lethbridge College

Graduates of Lethbridge College's Civil Engineering Technology diploma program may gain a second diploma in Engineering Design Technology with an additional 1½ years of study (course scheduling permitting).

### Northern Alberta Institute of Technology (NAIT)

Graduates of Lethbridge College's Civil Engineering Technology diploma program with a minimum GPA of 2.7, or a B- grade, on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology) degree program at NAIT. Applicants for transfer of credit 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

Lethbridge College's Civil Engineering Technology diploma graduates with a GPA of 3.0 or higher are eligible for full block transfer into the third year of the Bachelor of Commerce in Entrepreneurial Management at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

### Southern Alberta Institute of Technology (SAIT)

Graduates of Lethbridge College's Civil Engineering Technology diploma program are eligible to transfer up to 30 credits towards the Bachelor of Science Construction Project Management at SAIT.

### University of Alberta

Lethbridge College's Civil Engineering Technology diploma graduates with a GPA of 3.5 or higher are eligible to receive up to one year of transfer credit towards a Bachelor of Science (Engineering) at the University of Alberta. Admission is subject to the specific program, appropriate grades, and space availability. For the most current

information on transferring to the Faculty of Engineering, please visit <http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx> (<https://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx.html>)

## CAREERS

- 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

# Computer Information Technology

Program Office: 403.320.3468 • cit@lethbridgecollege.ca

If you have a talent for technology, think analytically and pay attention to detail, the IT world needs you. Start your IT career with a diploma in Computer Information Technology. Our two-year program won't just show you how to build an information system – it'll show you how to build a career.

Through a mix of classroom theory, hands-on projects and workplace experience, you'll receive a comprehensive introduction to the information technology industry in a Canadian Information Processing Society-accredited program. Your technological skills will be balanced with coursework in business and communication, so you can understand how to best serve the companies that will rely on your tech talents

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](https://www.lethbridgecollege.ca/programs) (https://www.lethbridgecollege.ca/programs/) and select your program.

## Graduation

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

## ADMISSIONS

New students are accepted into the Computer Information Technology program for the Fall (September) term.

## General Admissions 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.

## 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CIT-1152	Computer Hardware Maintenance	3

CIT-1154	Computer Programming I	3
CIT-1157	HTML and Web Publishing	3
ENG-1159	Writing for the Workplace	3
MTH-1152	Mathematics for CIT	3

**Credits 15**

### 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

**Credits 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 <sup>1</sup>		3

**Credits 16.5**

#### 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 Field Work	3
CIT-2276	Systems Analysis and Design II	3
MKT-1188	Introduction to Marketing	3
Approved Elective <sup>1</sup>		3

**Credits 18**

**Total Credits 64.5**

<sup>1</sup> One elective must be CIT-2260 Algorithms and Problem Solving (3 credits) or CIT-2269 Mobile App Development (3 credits)

## Year 2 Approved Electives

Course	Title	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
ARK-1165	Introduction Into Archaeology	3
BUS-1166	Business Law	3
BUS-1177	Entrepreneurship	3
BUS-2268	Organizational Behavior	3
BUS-2275	International Business	3
BUS-2278	Industrial and Labour 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-1158	Leadership Communication Skills	1.5
COM-1159	Applied Interpersonal Communication	3
COM-1162	Interpersonal Relationships and Communications	3
CPU-1165	Business Applications II	3
DES-1155	Graphic Design	3
ECN-1180	Microeconomics	3
ECN-2253	Macroeconomics	3
EXS-1178	Resistance Training	3
HUM-1150	Logic	3
HUM-1155	Ethics	3
HUM-1158	Creative Problem-Solving	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
PRS-1155	Speech	3
STS-2250	Statistics	3

- Mobile App Developer
- Network Analyst/Technician
- Programmer Analyst
- Software Developer
- Software Testing Specialist
- Web Developer and Administrator

## Practicum Experience Requirements

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

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Computer Information Technology diploma program are eligible to receive 30 credits towards a number of post-diploma bachelor's degrees in Commerce, Management, Human Resources/Labour Relations, and Science at Athabasca University.

To explore your options, please visit [www.athabascau.ca](http://www.athabascau.ca) (<https://www.athabascau.ca>)

### Griffith University, Australia

Graduates of Lethbridge College's Computer Information Technology diploma program are eligible to transfer credit towards the completion of a Bachelor of Information Technology at Griffith University, in Australia.

All students will be provided with an approved course completion pathway at time of offer of admission into a Griffith program. For more information, please visit [www.griffith.edu.au/credit](http://www.griffith.edu.au/credit) (<https://www.griffith.edu.au/credit/>)

### University of Lethbridge

Graduates of Lethbridge College's Computer Information Technology diploma program with a cumulative GPA of at least 2.5 are eligible for admission into the University of Lethbridge's Post-Diploma Bachelor of Science (Computer Science) program. Admitted students will be third-year degree level students in the university's Faculty of Arts and Science in all respects. For more information, please see an academic advisor and visit <https://www.uleth.ca>

## CAREERS

- Business and Systems Analyst
- Computer Service Technician
- Database Designer/Developer
- GIS Developer
- Information Systems Project Manager
- IT Support Specialist

# Conservation Enforcement - Bachelor of Applied Science

Program Office: 403.382.6991 • [envisci@lethbridgecollege.ca](mailto:envisci@lethbridgecollege.ca)

Take your passion for protecting the land, wildlife and fisheries resources to the next level in the Conservation Enforcement – Bachelor of Applied Science program. This made-in-Lethbridge degree has been honed through nearly four decades of experience and builds on the Natural Resource Compliance Diploma.

Through a proven blend of classroom theory, lab exercises and outdoor field work you'll develop the skills needed to deal with problem wildlife, investigate violations, enforce resource laws and more. You'll graduate with the knowledge and firsthand experience in natural and physical sciences and resource law enforcement to not only conserve the planet but sustain your future.

## Supplies for Field Studies

Students on field studies are expected to provide their own equipment and supplies. This may include:

- adequate clothing for cold/wet weather
- backpack for gear
- binoculars
- cooking and eating gear (may be shared)
- digital camera (standard feature)
- field equipment vest (recommended)
- food
- ground sheet and pad
- hiking boots
- sunscreen
- tent may be required (notification will be given at orientation)
- water bottle
- warm sleeping bag
- work gloves
- "write-in-the-rain" treated field notebook/surveyors book

Equipment and supplies may not be required in all courses or terms. Please consult the course outlines for specific equipment required before purchasing. 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:

- "write-in-the-rain" treated field notebook/surveyors book or field enforcement notebook

Available from sporting, hardware, and office supply stores:

- 4 GB or higher USB memory stick
- 12 or more coloured pencils (pencil crayons)
- binoculars (8 X 40 or 10 X 50 magnification)
- chest waders (rubber soled)
- clipboard

For additional information concerning supplies, contact the lab coordinator at 403.320.3202 ext. 5594.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

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

## Graduation

Upon successful completion of all program requirements, students are awarded a Bachelor of Applied Science in Conservation Enforcement Degree.

## 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 Admissions 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.

## Non-Academic Requirements

- 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.

## Medical Requirements

- 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.

## CURRICULUM

Course	Title	Credits
Year 1		
See Natural Resource Compliance diploma.		30
Credits		30
Year 2		
See Natural Resource Compliance diploma.		30
Credits		30
Year 3		
Term I		
CEN-3354	Administrative Procedures	3
CEN-3357	Environmental Compliance Techniques	3
CEN-3369	Environmental Investigations	3
Select 1 of the following options:		6
Option A - Environmental Monitoring and Compliance specialty		
ENV-3381	Environmental Water Quality	3
ENV-3397	Environmental Assessment and Auditing	
Option B - Fish, Wildlife and Parks specialty		
CEN-3352	Parks and Protected Areas	3
CEN-3389	Problem Wildlife Management Techniques	
Credits		15
Term II		
CEN-3374	Environmental Law	3
CEN-3379	Case Management	3
CEN-3390	Issues in Resource Enforcement	3
CJP-2287	Strategies in Crisis Situations	3
Select 1 of the following options:		3
Option A - Environmental Monitoring and Compliance specialty		
ENV-2280	Contaminant Management	3
Option B - Fish, Wildlife and Parks specialty		
SOC-3355	Cultural Diversity in Conservation Enforcement	3
Credits		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:		
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
Select 1 of the following options:		6
Option A - Environmental Monitoring and Compliance specialty		
CEN-4470	Habitat Protection	3
CEN-4485	Program Management	

Option B - Fish, Wildlife and Parks specialty		
CEN-4465	Hazard Assessment and Public Safety	30
CEN-4475	Problem Wildlife Field Techniques	
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>120</b>

Special notes 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.

## CAREERS

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

## 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.

# Cook Apprenticeship

Program Office: 403-320-3245 • [culinary@lethbridgecollege.ca](mailto:culinary@lethbridgecollege.ca)

With the right combination of ingredients, training and skill, you can create magic in the kitchen and a Red Seal designation. The recipe for success in the Cook Apprenticeship program starts with your enthusiasm and desire to achieve. We'll supply the experience you need to keep your three-year apprenticeship on track as you pursue your education while continuing to earn an income.

Delivered through the Weekly Apprenticeship Training System (WATS), the Cook Apprenticeship prepares you for Red Seal designation through observation, practice and study. One day a week is spent in class, expanding your expertise and gaining technical training vital to your culinary career. For the rest of the week, you'll be putting what you've learned into practice on the job.

New Apprentice Orientation Booklet (<https://lethbridgecollege.ca/document-centre/publications/miscellaneous-publications/apprentice-orientation-booklet/>)

**Prepare for your Red Seal exam and apply to the Cook Apprenticeship program today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 10-2, Math 10-3, or a pass mark in all five Canadian General Educational Development (GED) tests, or entrance exam.
- English 30-2, Math 30-3, Physics 20 or Chemistry 20 or Science 20, and related career and technology studies courses are recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

To arrange a tour, call 403-320-3322 or toll-free 1-800-572-0103.

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823

Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

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

## Courses include:

- Pâtisserie
- Butcher shop and cooking proteins
- Saucier
- Management controls and nutritional components
- Bakeshop
- Cold kitchen

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/018\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/018_outline.pdf)) for the Cook – WATS Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

In just three short years, you'll be ready to write the Red Seal exam and pursue your career in:

- Restaurants
- Clubs
- Institutions
- Hotels
- Bases and Camps

[https://tradesecrets.alberta.ca/trades-occupations/profiles/018/ Cook](https://tradesecrets.alberta.ca/trades-occupations/profiles/018/Cook)

# Correctional Studies

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

Are you ready to be a role model and make a difference in people's lives? If so, then a career in Corrections may be for you. In our two-year Corrections program, you'll gain the required competencies through your courses and experiential learning opportunities in our specialized learning spaces to become exceptional candidates for a rewarding and challenging career in corrections.

Sharing a common first year with students in our Criminal Justice – Policing program, you will develop key competencies such as communications and interpersonal-problem solving skills that are critical in corrections. In your second year, you will enhance your specialization skills relevant to corrections by learning principles of behaviour change and other assessment skills.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](https://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Correctional Studies diploma.

**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.

## Dual Diploma Option

Students pursuing Criminal Justice – Policing or Correctional Studies diplomas with the School of Justice share a common first year of courses. The common first year design of our justice programming facilitates opportunities for you to start your journey in public safety together with students from the Criminal Justice-Policing diploma. Together, you'll exchange ideas and beliefs, and have an inclusive educational experience that will strengthen relationships and understandings of all branches within the public safety field. Additionally, all students will have the opportunity to learn the ethical framework that should guide the actions of all public safety professionals. The common first year also enables students to take one extra semester to earn a second diploma from the School of Justice at Lethbridge College.

## ADMISSIONS

New students are accepted into the Correctional Studies program in the Fall (September) term for on-campus and online study. Students can also start in the Winter (January) or Spring (May) term for online study.

## General Admissions 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 should ensure through a medical examination

that their cardiovascular system is suitable to undertake fitness-related exercise.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CJP-1159	Ethics and Critical Thought	3
CJP-1160	Introduction to Criminal Justice System	3
COM-1165	Public Safety Communications/ Interpersonal Relations	3
ENG-1150	Composition	3
LAW-1177	Procedural Law in Canada	3
PSY-1160	Introduction to Psychology	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
CJP-1185	Diverse Populations in Public Safety	3
CJP-1157	Preliminary Response and Investigation	3
CJP-1177	Applied English & Public Safety Writing	3
COR-1180	Youth in the Justice System	3
LAW-1178	Criminal and Correctional Offences	3
SOC-1160	Introduction to Sociology	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
CJP-2281	Conflict Management	3
COR-2253	Correctional Classification	3
PED-1190	Fitness & Lifestyles in Public Safety I	3
SOC-2255	Complex Correctional Populations	3
SOC-2290	Addictions and Mental Health in Justice	3
Approved Elective		3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
CJP-2278	Criminology	3
CJP-2287	Strategies in Crisis Situations	3
COR-2277	Corrections Administration	3
COR-2295	Correctional Case Work and Practices	3
Approved Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>69</b>

## Approved Electives

To fulfill elective requirements, choose one elective from List A and one elective from List B or two electives from List B.

### List A - Specialized Electives

Course	Title	Credits
CJP-2280	Introduction to Commercial Vehicle Enforcement	3
CJP-2294	Specialized Policing	3
CJP-2295	Traffic	3
CJP-2296	Career Preparation for Public Safety	3

COR-2262	Drugs in Corrections	3
FWK-2280	Field Work Practicum	3

## List B - Breadth Electives

Course	Title	Credits
ANT-1195	Cultural Anthropology	3
ANT-2295	Anthropology of Gender	3
ARK-1165	Introduction Into Archaeology	3
BIO-1160	Anatomy and Physiology I	3
BIO-1162	Microbiology	3
BIO-1169	Structural Human Anatomy	3
BLK-1151	Blackfoot Language I	3
BLK-2251	Blackfoot Language II	3
BUS-1166	Business Law	3
BUS-1170	Introduction to Management	3
BUS-2278	Industrial and Labour Relations	3
ENG-1190	Introduction to Language and Literature	3
HUM-1150	Logic	3
HUM-1158	Creative Problem-Solving	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
INS-1150	Exploring Indigenous Perspectives	3
INS-1155	Introduction to Indigenous Studies	3
PSC-1150	Local Government	3
PSC-1161	Introduction to Politics	3
PSC-1165	Canadian Government	3
PSY-1170	Human Development Across the Lifespan	3
PSY-1177	Psychology of Aging	3
PSY-1179	Adolescent Development	3
PSY-2253	Child Psychopathology	3
PSY-2260	Abnormal Psychology	3
PSY-2270	Introduction to Personality Theory	3
PSY-2275	Introduction to Forensic Psychology	3
PSY-2280	Social Psychology	3
PSY-2290	Brain and Behaviour	3
SOC-1167	Sociology of Aging	3
SOC-2260	Social Problems	3
SPN-1150	Introductory Spanish	3
SPN-1151	Introductory Spanish II	3
VXR-1150	Introduction to Immersive Technology	3

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### Athabasca University (*pending review*)

Graduates of the Correctional Studies diploma are eligible to receive up to 60 credits towards Athabasca University's Bachelor of Professional Arts (BPA) in Human Services, Bachelor of Professional Arts (BPA) in Criminal Justice or, Bachelor of Professional Arts in Governance, Law and Management.

### Griffith University, Australia (*pending review*)

Graduates of Lethbridge College's Correctional Studies diploma are eligible to receive transfer credit toward the completion of a Bachelor of Criminology and Criminal Justice at Griffith University, Australia. For more information, visit <https://www.griffith.edu.au/apply/credit-transfer> (<https://www.griffith.edu.au/apply/credit-transfer/>)

## Lethbridge College

Graduates of Lethbridge College's 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.

## Royal Roads University

Lethbridge College's Correctional Studies diploma graduates with a GPA of 3.0 or higher are eligible for full block transfer into the third year of the Bachelor of Arts in Justice Studies at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

## CAREERS

At the end of the program, you'll be prepared for work throughout the criminal justice system in positions such as:

- Federal Correctional Officer
- Halfway House Counsellor
- Provincial Correctional Officer
- Youth Worker
- Victim Services Worker



## Criminal Justice - Policing

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

Are you ready to make a difference in your community? Prepare for a career serving others and working collaboratively to ensure our communities are safe, healthy and vibrant in our Criminal Justice – Policing program. In our two-year Criminal Justice – Policing program, you'll gain insight into the criminal justice system and criminal and procedural law, and you will build your communication skills. Through many experiential learning opportunities, you'll have the opportunity to apply theory and your knowledge in our specialized learning spaces.

Sharing a common first year with students in the Correctional Studies diploma, you'll learn to develop core competencies that industry is seeking in successful candidates, such as teamwork, ethical accountability and responsibility, written and verbal communication, and problem-solving skills. In your second year, you will develop key competencies in the areas of interpersonal conflict resolution, emotional intelligence, and self-confidence which are essential qualities required for a career in public safety.

### Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

### Graduation

Upon successful completion of all program requirements, students are awarded a Criminal Justice - Policing diploma.

**Note:** Employing agencies have additional hiring requirements such as vision standards, hearing standards, a valid driver's license, Standard First Aid and CPR. Learners are strongly encouraged to know the vision and hearing standards and to obtain and maintain their credentials in First Aid and CPR to ensure employment qualifications are met.

### Dual Diploma Option

Students pursuing Criminal Justice – Policing or Correctional Studies diplomas with the School of Justice share a common first year of courses. The common first year design of our justice programming facilitates opportunities for you to start your journey in public safety together with students from the Correctional Studies diploma. Together, you'll exchange ideas and beliefs, and have an inclusive educational experience that will strengthen relationships and understandings of all branches within the public safety field. Additionally, all students will have the opportunity to learn the ethical framework that should guide the actions of all public safety professionals. The common first year also enables students to take one extra semester to earn a second diploma from the School of Justice Studies at Lethbridge College.

## ADMISSIONS

New students are accepted into the Correctional Studies program in the Fall (September) term for on-campus and online study. Students can also start in the Winter (January) or Spring (May) term for online study.

## General Admissions 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 Public Safety.

## 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CJP-1159	Ethics and Critical Thought	3
CJP-1160	Introduction to Criminal Justice System	3
COM-1165	Public Safety Communications/ Interpersonal Relations	3
ENG-1150	Composition	3
LAW-1177	Procedural Law in Canada	3
PSY-1160	Introduction to Psychology	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
CJP-1157	Preliminary Response and Investigation	3
CJP-1177	Applied English & Public Safety Writing	3
CJP-1185	Diverse Populations in Public Safety	3
COR-1180	Youth in the Justice System	3
LAW-1178	Criminal and Correctional Offences	3
SOC-1160	Introduction to Sociology	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
CJP-2281	Conflict Management	3
CJP-2289	Investigative Techniques	3
LAW-2254	Applied Law	3
PED-1190	Fitness & Lifestyles in Public Safety I	3
SOC-2290	Addictions and Mental Health in Justice	3
Approved Elective		3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
CJP-2278	Criminology	3
CJP-2287	Strategies in Crisis Situations	3
CJP-2293	Organizational Awareness in Public Safety	3
LAW-2264	Courtroom Procedures	3

Approved Elective	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>69</b>

## Approved Electives

To fulfill elective requirements, choose one elective from List A and one elective from List B or two electives from List B.

### List A - Specialized Electives

Course	Title	Credits
CJP-2280	Introduction to Commercial Vehicle Enforcement	3
CJP-2294	Specialized Policing	3
CJP-2295	Traffic	3
CJP-2296	Career Preparation for Public Safety	3
COR-2262	Drugs in Corrections	3
FWK-2280	Field Work Practicum	3

### List B - Breadth Electives

Course	Title	Credits
ANT-1195	Cultural Anthropology	3
ANT-2295	Anthropology of Gender	3
ARK-1165	Introduction Into Archaeology	3
BIO-1160	Anatomy and Physiology I	3
BIO-1162	Microbiology	3
BIO-1169	Structural Human Anatomy	3
BLK-1151	Blackfoot Language I	3
BLK-2251	Blackfoot Language II	3
BUS-1166	Business Law	3
BUS-1170	Introduction to Management	3
BUS-2278	Industrial and Labour Relations	3
ENG-1190	Introduction to Language and Literature	3
HUM-1150	Logic	3
HUM-1158	Creative Problem-Solving	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
INS-1150	Exploring Indigenous Perspectives	3
INS-1155	Introduction to Indigenous Studies	3
PSC-1150	Local Government	3
PSC-1161	Introduction to Politics	3
PSC-1165	Canadian Government	3
PSY-1170	Human Development Across the Lifespan	3
PSY-1177	Psychology of Aging	3
PSY-1179	Adolescent Development	3
PSY-2253	Child Psychopathology	3
PSY-2260	Abnormal Psychology	3
PSY-2270	Introduction to Personality Theory	3
PSY-2275	Introduction to Forensic Psychology	3
PSY-2280	Social Psychology	3
PSY-2290	Brain and Behaviour	3
SOC-1167	Sociology of Aging	3
SOC-2260	Social Problems	3
SPN-1150	Introductory Spanish	3

SPN-1151	Introductory Spanish II	3
VXR-1150	Introduction to Immersive Technology	3

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### Athabasca University (*pending review*)

Graduates of Lethbridge College's Criminal Justice - Policing diploma are eligible to receive up to 60 credits towards Athabasca University's

Bachelor of Professional Arts (BPA) in Human Services or Bachelor of Professional Arts (BPA) in Criminal Justice.

## **Griffith University, Australia (*pending review*)**

Graduates of Lethbridge College's Criminal Justice - Policing diploma are eligible to receive transfer credit towards the completion of a Bachelor of Criminology and Criminal Justice at Griffith University, Australia. For more information, visit <https://www.griffith.edu.au/apply/credit-transfer> (<https://www.griffith.edu.au/apply/credit-transfer/>)

## **Lethbridge College**

Graduates of Lethbridge College's Criminal Justice - 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.

## **Royal Roads University**

Graduates of Lethbridge College's Criminal Justice - Policing diploma with a GPA of 3.0 or higher are eligible for full block transfer into the third year of the Bachelor of Arts in Justice Studies at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

## **CAREERS**

You'll leave our program with a comprehensive understanding of the criminal justice system and a valuable range of practical skills and abilities. You'll be ready to do justice with:

- Emergency Services
- Federal Enforcement Agencies such as Royal Canadian Mounted Police, Canada Border Services, Correctional Service Canada, CSIS
- Municipal Police Services
- Regional Police Services
- Provincial Enforcement and Protection Services
  
- Provincial Police Services
- Private Security and Investigation Agencies

## Culinary Arts

Program Office: 403.320.3245 • [culinary@lethbridgecollege.ca](mailto:culinary@lethbridgecollege.ca)

Behind those tantalizing Instagram photos of food is a chef who creates edible works of art on a daily basis. Become that chef with world-class culinary training in the Culinary Arts program. With exceptional instruction and plenty of hands-on opportunities, our Culinary Arts diploma graduates have a record of landing that important first job.

As well-planned as a gourmet meal, our fast-paced Culinary Arts program starts you off with restaurant production methods before moving onto sweet and savoury techniques. For the main course, we'll serve up a paid industry placement. And to finish it all off, you'll be immersed in dining-room cuisine in our on-campus Garden Court Restaurant.

### Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://lethbridgecollege.ca/programs/>) and select your program.

A uniform deposit and laundry fees are also required.

### Graduation

Upon successful completion of all program requirements, students are awarded a Culinary Arts diploma.

### Graduation Requirements

In order to receive their diploma, students must have an overall combined (practical and theoretical) average of 70%.

Students not already employed will be required to attend Hospitality Recruitment Day where employers come to the College and resumes can be dropped off with those employers for summer work placements. Past students in our program have achieved 100 percent employment. Summer work place locations vary from resort areas in the Rocky Mountains to local hotels, restaurants, care facilities and catering companies.

Our 15-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.

## ADMISSIONS

New students are accepted into the Culinary Arts program for the Fall (September) and Winter (January) terms.

### General Admissions 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 Arts 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.

### 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.

### Non-Medical Requirements

Students can expect to cut and prepare products such as beef, pork, lamb, shellfish, fish, fowl, etc. Once dishes are prepared, students may be required to taste them.

Students may also be exposed to allergens such as soy, eggs, nuts, gluten, etc.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CLA-1100	Kitchen Fundamentals and Safety	6
CLA-1101	Integrated Food Services	6
CLA-1102	Meat Preparation and Saucier I	6
CLA-1103	Bakeshop Production I	6
COM-1137	Communication Skills	1.5
<b>Credits</b>		<b>25.5</b>
<b>Term II</b>		
CLA-1104	Event Planning, Management & Nutrition	3
CLA-1105	Integrated Lunch Service	6
CLA-1106	Meat Preparation & Saucier II	6
CLA-1107	Bakeshop Production II	6
<b>Credits</b>		<b>21</b>
<b>Year 2</b>		
<b>Term III</b>		
CLA-2200	Industry Work Placement	1.5
<b>Credits</b>		<b>1.5</b>
<b>Term IV</b>		
CLA-2201	Advanced Management Skills	3
CLA-2202	Integrated Dinner Service	6
CLA-2203	Meat Cutting and Cooking	6
CLA-2204	Bakeshop Production III	6
<b>Credits</b>		<b>21</b>
<b>Total Credits</b>		<b>69</b>

## CAREERS

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:

- Banquet chef
- Banquet cook
- Business owner
- Caterer
- Chef
- Chef de partie
- Entrepreneur
- Food sales representative
- Line cook
- Prep cook
- Sous chef



## Digital Communications and Media

Program Office: 403.320.3468 • digitalcomm@lethbridgecollege.ca

Do you envision a future delivering news, creating marketing materials, writing engaging content, taking photos, shooting video or producing podcasts? If so, join our Digital Communications and Media program, where you will have the opportunity to pursue your passions while preparing for success in any media environment.

Our two-year program allows flexibility with projects and assignments to focus on gaining experience related to your career goals. You'll learn how to be a multi-faceted media and communication professional, working across varied areas of journalism, communications, video, audio, photography and design to create your own unique path into an evolving industry.

### 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](http://www.lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

### Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

### Graduation

Upon successful completion of all program requirements, students are awarded a Digital Communications and Media diploma.

## ADMISSIONS

New students are accepted into the Digital Communications and Media program for the Fall (September) term.

### General Admissions Requirements

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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
DCM-1150	Research and Writing for Digital Media	3
DCM-1160	Media History and Regulations	1.5
DCM-1161	Communication in Media	1.5
DCM-1162	Introduction to Video Production	3
DCM-1164	Introduction to Design Software and Photography	3
DCM-1166	Introduction to Audio Production	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
DCM-1159	Media Law and Ethics	3
DCM-1167	Marketing Fundamentals for Media	3
DCM-1169	Audio Writing and Production I	3

DCM-1172	Video Writing and Production I	3
DCM-1173	Publishing, Photography and Design I	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>30</b>

Course	Title	Credits
<b>Year 2</b>		
<b>Term I</b>		
DCM-2258	Promotions and Marketing	3
DCM-2261	Professional Media Communication	3
DCM-2262	Video Writing and Production II	3
DCM-2266	Publishing, Photography and Design II	3
DCM-2269	Audio Writing and Production II	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
DCM-2268	Media Freelancing	1.5
DCM-2278	Social Media and Communications	3
DCM-2279	Audio Writing and Production III	1.5
DCM-2282	Video Writing and Production III	1.5
DCM-2286	Publishing, Photography and Design III	1.5
Electives (Students take two of three)*		6
<b>Credits</b>		<b>15</b>
<b>Term III</b>		
DCM-2280	Practicum	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>33</b>

### Approved Electives

Course	Title	Credits
DCM-2284	Advanced Video Writing and Production	3
DCM-2289	Advanced Audio Writing and Production	3
DCM-2296	Adv Publishing, Photography and Design	3

### Practicum Experience Requirements

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

## TRANSFERS

### Griffith University, Australia

Graduates of Lethbridge College's Digital Communications and Media diploma program are eligible to transfer credit towards the completion of a Bachelor of Communication and Journalism at Griffith University, in Australia. All students will be provided with an approved course completion pathway at time of offer of admission into a Griffith program. For more information, please visit [www.griffith.edu.au/credit](http://www.griffith.edu.au/credit) (<https://www.griffith.edu.au/credit/>)

### Royal Roads University

Lethbridge College's Digital Communications and Media diploma graduates are eligible for block transfer into the third year of the Bachelor of Arts in Professional Communication program at Royal Roads

University. For more information, please visit <https://www.royalroads.ca>  
(<https://www.royalroads.ca>)

## CAREERS

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

# Early Childhood Education

Program Office: 403.320.3393 • humanservices@lethbridgecollege.ca

Become an essential part of a child's early years, where learning through play is vital to development, in our Early Childhood Education (ECE) programs. Offering both a one-year certificate and two-year diploma, our ECE programs are approved for licensing in most provinces and territories, and they have been designed for flexibility. The one-year certificate is offered on our main campus as well as fully online. Year 2 of the Diploma is offered through online learning.

Through a blend of theory and practical application, we'll prepare you with the knowledge, experience and perspective you need to work with young children at any stage of development. When it comes to hands-on experience, your practicum can be arranged near you. Develop a career fit for your nurturing personality and love of children in our ECE programs.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## 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.

## 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 on-campus delivery in the Winter (January) term will take courses in a revised curriculum based on course availability. This admission will result in a three term curriculum for the on-campus completion of the certificate. Courses are also open on an individual basis for part-time study.

Upon successful completion of your Early Childhood Education certificate program, you will be eligible for admission to the Early Childhood Education diploma. In order to be considered for the diploma program, we recommend that you submit a Change of Program to the Admissions Office in your last term of study of the certificate program. If you have any questions about this process, please contact the Admissions Office.

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 Admissions 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.

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 diploma outcomes.

## CURRICULUM Certificate

(available on the Main campus or online)

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
ECE-1150	Observation and Documentation in ECE	1.5
ECE-1155	Introduction to Early Childhood Education	3
ECE-1156	Development Through Play	3
ECE-1180	Practicum I	1.5
ENG-1150	Composition	3
PSY-1171	Child Growth and Development	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
ECE-1151	Health, Safety and Nutrition	3
ECE-1154	Guiding Children's Behavior	3
ECE-1162	Creative Experiences I	3
ECE-1168	Children's Outdoor Play	3
ECE-1181	Practicum II	3
PSY-1191	The Developing Brain	3
<b>Credits</b>		<b>18</b>
<b>Total Credits</b>		<b>33</b>

## Diploma

(Available Online Learning Only)

Course	Title	Credits
<b>Year 2</b>		
ECE-2250	Pedagogical Documentation	3
ECE-2254	Child, Family and Community	3
ECE-2255	School-Aged Programming	3
ECE-2256	Pedagogical Leadership	3
ECE-2260	Infant and Toddler Programming	3
ECE-2262	Creative Experiences II	3
ECE-2263	Creative Experiences III	3
ECE-2264	Pre-School Programming	3
ECE-2280	Practicum III	3
ECE-2281	Practicum IV	3
<b>Credits</b>		<b>30</b>
<b>Total Credits</b>		<b>30</b>

## 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.

## PRACTICUM

Students in the online certificate or diploma program are strongly encouraged to contact the Early Childhood Education Practicum

Coordinator upon their admission to the program to inquire about the process for setting up practicum placements. This process can take 2-3 months and there are deadlines that must be adhered to. All students are held to the same deadlines and requirements and failure to meet those deadlines and/or requirements may result in a delay in being able to complete a practicum placement.

## Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS Athabasca University

Graduates of Lethbridge College's Early Childhood Education diploma program may receive up to two years' credit towards Athabasca University's Bachelor of Professional Arts - Human Services major.

## Bow Valley College

Lethbridge College's Early Childhood Education certificate graduates with a minimum mark of 64% and completion of additional courses (INS 1155, SOC 2270, and COM 1159 or COM 1162) are eligible to block transfer up to 37 credits towards the Early Childhood Education and Development diploma at Bow Valley College.

## Lakeland College

Graduates of Lethbridge College's Early Childhood Education certificate program (one year) are eligible for admission directly into the second year of Lakeland College's Early Learning and Child Care diploma program.

## Medicine Hat College

Graduates of Lethbridge College's Early Childhood Education certificate program (one year) are eligible for admission into the second year of Medicine Hat College's Early Learning and Child Care diploma program.

## University of Alberta

Lethbridge College's Early Childhood Education diploma graduates are eligible to block transfer up to 30 credits towards the Bachelor of Education (Elementary) program at the University of Alberta, provided all necessary diploma courses are completed.

## CAREERS

When you graduate from either ECE program, your in-demand skills will open up opportunities in:

- Child Care Centres
- Early Learning Programs
- Kindergartens
- Preschool Programs
- Family Group Care Programs
- Before and After School Programs
- Parenting Centres
- Recreational Facilities
- Out-of-school Care Programs
- Day Homes

# Ecosystem Management - Bachelor of BEdM

Program Office: 403.382.6991 • [envisci@lethbridgecollege.ca](mailto:envisci@lethbridgecollege.ca)

Make the forests, mountaintops and fields your future workplace by building on your environmental sciences diploma in the Bachelor of Ecosystem Management degree program. Designed with input from environmental industry partners and delivered through two program streams, the degree prepares you for work in either environmental management and restoration or fish and wildlife management.

Thanks to a curriculum focused on industry-relevant technical and field skills, the program offers more than the traditional bachelor degree. Integrating applied field and lab skills with theoretical studies, the Ecosystem Management degree culminates in a capstone learning experience that tests your skills in the forests, mountains and fields that will one day be your workplace.

## Supplies for Field Studies

Students on field studies are expected to provide their own equipment and supplies. This may include:

- 30 cm metric steel ruler
- adequate clothing for cold/wet weather
- backpack for gear
- binoculars
- digital camera (standard feature)
- field equipment vest (recommended)
- food
- hiking boots
- orienteering compass
- sunscreen
- safety glasses (third year)
- water bottle
- warm sleeping bag
- work gloves
- “write-in-the-rain” treated field notebook/surveyors book

Equipment and supplies may not be required in all courses or terms. Please consult the course outlines for specific equipment required before purchasing. 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:

- 16X hand lens
- dissection kit
- lab coat
- metric triangular scale with 1:1, 1:2, 1:5, 1:10, 1:20 and 1:50 graduations
- safety glasses
- “write-in-the-rain” treated field notebook/surveyors book

Available from sporting, hardware, and office supply stores:

- 4 GB or higher USB memory stick
- 12 or more coloured pencils (pencil crayons)
- 30 cm metric steel ruler
- binoculars (8 X 40 or 10 X 50 magnification)
- chest waders (rubber soled)
- clipboard
- Nexus Type 115 or Silva Ranger compass (with declination adjustment screw)
- scientific calculator (\$15 - \$30 range)

For additional information concerning supplies, contact the lab coordinator at 403.320.3202 ext. 5594.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

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

## Graduation

Upon successful completion of all program requirements, students are awarded a Bachelor of Ecosystem Management degree.

## 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 Admissions 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 Bachelor of Ecosystem Management 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
See the Environmental Assessment and Restoration diploma or Renewable Resource Management diploma.		30
<b>Credits</b>		<b>30</b>



**Year 2**

See the Environmental Assessment and Restoration diploma or Renewable Resource Management diploma. 30

**Credits** 30

**Year 3****Term I**

ENV-3372 Environmental Policy 3

ENV-3381 Environmental Water Quality <sup>1</sup> 3

ENV-3397 Environmental Assessment and Auditing <sup>1</sup> 3

Select 1 of the following options: 6

Option A - Remediation and Restoration concentration

ENV-3383 Environmental Soil Physics <sup>1</sup>

GEO-3380 Hydrology <sup>1</sup>

Option B - Fish and Wildlife Management concentration

RRM-3368 Wildlife Field Techniques <sup>1</sup>

RRM-3369 Fishery Management Techniques <sup>1</sup>

**Credits** 15

**Term II**

GEO-3376 Advanced Geographic Information Systems 3

HUM-3370 Environmental Ethics 3

STS-3355 Inferential Statistics 3

Select 1 of the following options: 6

Option A - Remediation and Restoration concentration

CHM-4455 Analytical Chemistry

GEO-3382 Contaminant Hydrogeology <sup>1</sup>

Option B - Fish and Wildlife Management concentration

BIO-3350 Comparative Animal Biology <sup>1</sup>

RRM-4463 Population Ecology and Management <sup>1</sup>

**Credits** 15

**Year 4****Term I**

BIO-3352 Applied Biotechnology <sup>1</sup> 3

ENV-3355 Environmental Quality 3

ENV-4450 Senior Project I 3

Select 1 of the following options: 6

Option A - Remediation and Restoration concentration

ENV-4452 Contaminated Site Management

RRM-4454 Restoration Ecology <sup>1</sup>

Option B - Fish and Wildlife Management concentration

BIO-4462 Mammalogy <sup>1</sup>

RRM-4460 Species At Risk Management <sup>1</sup>

**Credits** 15

**Term II**

ENV-4451 Senior Project II 3

GEO-3383 Geomorphology <sup>1</sup> 3

RRM-3350 Integrated Resource Management 3

Select 1 of the following options: 6

Option A - Remediation and Restoration concentration

CHM-4456 Ecotoxicology

ENV-4453 Stream Reclamation and Remediation <sup>1</sup>

Option B - Fish and Wildlife Management concentration

BIO-4461 Field Ornithology <sup>1</sup>

GEO-4464 Applied Limnology <sup>1</sup>

**Credits** 15

**Total Credits** 120

<sup>1</sup> 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.

**CAREERS****Concentration Dependent**

Agrologist

Environmental Consultant

Environmental Scientist

Fisheries Biologist

Wildlife Biologist

# Educational Assistant

## Available Online Delivery Only

Program Office: 403.320.3393 • humanservices@lethbridgecollege.ca

Help students reach their full potential and maximize their school experience by stepping back into the classroom as an Educational Assistant. Whether you choose the one-year certificate or two-year diploma option, you'll get into the heart of this meaningful and rewarding career in our innovative, accessible and online Educational Assistant program.

We'll show you how your patience, creativity and understanding can make a difference in students' lives. You'll discover ways to assist students to increase learning, independence and positive behaviours. You'll also learn about the needs of students with disabilities and how you can assist all students in inclusive classroom settings.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## 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.

## ADMISSIONS

Students are accepted into the Educational Assistant program for the Fall (September), Winter (January), or Spring (May) terms. Upon successful completion of your certificate program, you will be eligible for admission to the Educational Assistant diploma. In order to be considered for the diploma program, we recommend that you submit a Change of Program to the Admissions Office in your last term of study of the certificate program. If you have any questions about this process, please contact the Admissions Office.

## General Admissions 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.

## CURRICULUM

**Note:** All students should consult an Academic Advisor (403.320.3200) to create a schedule. Academic advising has program specific information for course order and program design. Certificate courses are offered multiple times per year. Diploma courses are timetabled so students can graduate in 12 months. Diploma courses may be taken in the Certificate year. For certificate students transferring in to the Educational Assistant

diploma, the educational assistant certificate must be from an accredited college.

## Certificate

Course	Title	Credits
<b>Year 1</b>		
COM-1162	Interpersonal Relationships and Communications	3
EDU-1153	Foundations of Educational Assistance	3
EDU-1155	Math Instructional Support	3
EDU-1156	Language Arts Instructional Support	3
EDU-1162	Self-Regulation in the Classroom	3
EDU-1163	Observation and Assessment	3
EDU-1165	Applied Behaviour Analysis	3
Select 1 of the following:		3
ENG-1150	Composition	
ENG-1190	Introduction to Language and Literature	
FWK-1160	Field Placement I	1.5
FWK-1163	Field Placement II	1.5
HSP-1151	Family Systems and Development	3
PSY-1170	Human Development Across the Lifespan	3
SOC-2273	Multicultural Issues	3
<b>Credits</b>		<b>36</b>
<b>Total Credits</b>		<b>36</b>

## Diploma

Course	Title	Credits
<b>Year 2</b>		
CPU-2253	Technology in Education	3
EDU-2250	Speech and Language Development	3
EDU-2252	Supporting English Language Learners	3
EDU-2254	Health Issues in Education	3
EDU-2258	Case Studies of Challenging Behaviour	3
EDU-2260	Positive Behavioral Supports	3
EDU-2266	Sensory Impairments	3
FWK-2260	Field Placement III	1.5
FWK-2262	Field Placement IV	1.5
HSP-2250	Functional Assessment	3
PSY-2250	Educational Psychology	3
Elective		3
<b>Credits</b>		<b>33</b>
<b>Total Credits</b>		<b>33</b>

## Electives

Students may select from the following courses. Not all electives are offered every term and not all courses are available online. Other electives may be chosen with permission, prior to enrolment and completion of the course.

Course	Title	Credits
BLK-1151	Blackfoot Language I	3
ECE-1155	Introduction to Early Childhood Education	3
ECE-1168	Children's Outdoor Play	3

ECE-2264	Pre-School Programming	3
ENG-2265	Indigenous Literature	3
ENG-2285	Children's Literature	3
INS-1155	Introduction to Indigenous Studies	3
PSY-1171	Child Growth and Development	3
PSY-1179	Adolescent Development	3
PSY-1191	The Developing Brain	3
PSY-2253	Child Psychopathology	3
PSY-2260	Abnormal Psychology	3
PSY-2277	Addictions Treatment	3
PSY-2280	Social Psychology	3
PSY-2290	Brain and Behaviour	3
SOC-1160	Introduction to Sociology	3
SOC-2260	Social Problems	3
SOC-2276	Sexuality	3

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from

a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Educational Assistant certificate program (one year) are eligible to receive up to 30 credits towards a Bachelor of Professional Arts in Human Services at Athabasca University. Graduates of Lethbridge College's Educational Assistant diploma program (two years) are eligible to receive up to 60 credits towards the third year of Athabasca University's Bachelor of Professional Arts in Human Services, Bachelor of Professional Arts in Criminal Justice, Bachelor of Professional Arts in Communication Studies, or Bachelor of Professional Arts in Governance, Law and Management.

### University of Alberta

Educational Assistant diploma graduates from Lethbridge College are eligible to receive up to 30 credits towards the University of Alberta's Bachelor of Science Human Ecology (Family Ecology major/Child and Youth Studies major) at the University of Alberta. Applicants must present a minimum cumulative GPA of 2.0 in order to receive the maximum allowable credits.

## CAREERS

When you complete the certificate or the diploma program, your expertise will be in high demand. You'll be able to find employment opportunities in:

- Elementary, Middle and High Schools
- Kindergartens and Preschools
- Alternative and Outreach Schools
- Before and After School Programs
- Private Agencies who Support Families with Children/youth with Disabilities or Behaviour Challenges
- Early Intervention Programs for Children at Risk
- School Lunch Programs
- Respite Care for Families
- Recreation and Community Centres
- Summer Camps and Summer Recreation Programs

# Electrician Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

You won't be bored on the job as an electrician. From working outdoors on scaffolding to indoor jobs in clean comfort – the changes in work conditions can be dramatic. But the training you receive in the Electrician Apprenticeship program will prepare you to succeed on any job, whether you specialize in commercial, industrial, maintenance or construction.

You'll learn in small classes taught by experienced instructors who maintain close ties to the industry. In our modern facilities, you'll gain real-world experience from reading electrical drawings to splicing wire to testing circuits for integrity. When you finish your apprenticeship, you'll know the ins and outs of electrical work.

**Power up your career in the Electrician Apprenticeship – apply today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

To arrange a tour, call 403-320-3322 or toll-free 1-800-572-0103.

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require eight to 12 weeks of classroom training each year in addition to on-the-job training.

### Courses include:

- Electronics
- Machine Theory
- Heating and Cooling Systems
- Transformer Operation
- Fire Alarm Systems
- PLC
- Motors

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/003\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/003_outline.pdf)) for the Electrical Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

When you finish your apprenticeship, you'll be prepared for such positions as:

- Journeyman Electrician
- Supervisor
- Estimator
- Electrical Inspector
- Business Owner

<https://tradesecrets.alberta.ca/trades-occupations/profiles/003/Electrician>

# Electrician Pre-Employment Training

Program Office: 403-320-3411 • tradeslc@lethbridgecollege.ca

## Designed for those who are not yet employed or apprenticed within the trades.

Not an apprentice? Not a problem. Kick-start your career in the trades in our Pre-Employment Electrician program. Specifically designed for those who are not yet employed in the trade, the Pre-Employment Electrician trades training program provides the first year of the Alberta Apprenticeship Electrical curriculum.

Trades employers are reluctant to hire employees with no experience, but you can enhance your chances in our Pre-Employment Electrician trades training program. Through a mix of theoretical and hands-on training, our Pre-Employment Electrician program prepares you to write the first-year Alberta Apprenticeship Electrical exam.

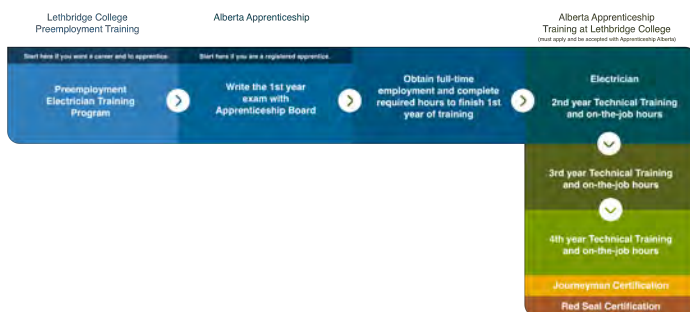
## ADMISSIONS

English 20-2, Math 20-3, Science 10, or pass Apprenticeship Entrance Exam.

## CURRICULUM

Upon successful completion of The Pre-Employment Electrician program, you will:

- be prepared to write the First Period Alberta Apprenticeship Examination.
- be prepared to be employed within the Electrical industry in Alberta.
- have learned valuable employability skills including cover letter and resume writing, and interview skills.
- obtain a Letter of Recognition.



## CAREERS

When you finish your apprenticeship, you'll be prepared for such positions as:

- Journeyman Electrician
- Supervisor
- Estimator
- Electrical Inspector
- Business Owner



# Engineering Design Technology

Program Office: 403.320.3468 • [engineeringtech@lethbridgecollege.ca](mailto:engineeringtech@lethbridgecollege.ca)

If you have a knack for visualizing ideas and getting them down on actual or virtual paper, the Engineering Design Technology program can help you create a blueprint for your future. Design and drafting technologists are essential to engineering and construction – and the Engineering Design Technology program provides you with the theory and experience to succeed on the job.

Through an immersive blend of theory and hands-on training, you'll develop a comprehensive understanding of design and drafting fundamentals. You'll learn how to design and draft drawings, plans and diagrams while using 3D computer-assisted drafting technology and 3D printing to help bring your ideas to life for all types of buildings, subdivisions and other infrastructure projects.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs/](https://lethbridgecollege.ca/programs/) (<https://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/](https://www.lethbridgecollege.ca/mobilelearning/) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

## Graduation

Upon successful completion of all program requirements, students are awarded an Engineering Design Technology diploma.

## National and International Accreditation

The Engineering Design Technology program is nationally accredited with Technology Accreditation Canada (TAC). *A TAC nationally accredited program represents excellence in education, providing students, parents, faculty and industry confidence the program has met the standards of the profession and graduates have the requisite knowledge and skill set to competently enter the workforce. - Technology Accreditation Canada.*

As a result of the accreditation with TAC, all graduates of the Engineering Design Technology program are also internationally accredited.

## ADMISSIONS

New students are accepted into the Engineering Design Technology program for the Fall (September) term.

## General Admissions 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 are required.

## Practicum Experience Requirements

There is an elective practicum component to this program. Lethbridge College dictates the legal terms and conditions governing the practicum experience.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>16.5</b>
<b>Term II</b>		
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	3
MTH-1170	Engineering Math II	3
SUR-1180	Land Survey II	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>19.5</b>

**Term III**

(Optional)

EDD-2298	Work Experience	1.5
	<b>Credits</b>	<b>1.5</b>
	<b>Total Credits</b>	<b>73.5</b>

## 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.

## TRANSFERS

### Lethbridge College

Graduates of Lethbridge College's Engineering Design Technology diploma program may earn a second diploma in Civil Engineering Technology with an additional 1½ years of study (course schedule permitting).

### Montana State University (*pending renewal*)

Graduates of Lethbridge College's Engineering Design Technology diploma program may be eligible to transfer to Montana State University's Bachelor of Arts in Environmental Design.

### Northern Alberta Institute of Technology (NAIT)

Graduates of Lethbridge College's Engineering Design Technology diploma program with a minimum GPA of 2.7, or a B- grade, on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology) degree program. Applicants for transfer of credit 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

Lethbridge College's Engineering Design Technology diploma graduates with a GPA of 3.0 or higher are eligible for full block transfer into the Bachelor of Commerce in Entrepreneurial Management at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

### University of Alberta

Graduates of Lethbridge College's Engineering Design Technology diploma program with a GPA of 3.5 or higher are eligible for up to one year of transfer credit towards a Bachelor of Science (Engineering) at the University of Alberta — dependent on the program, appropriate grades, and space availability. For the most current information on transferring to the Faculty of Engineering, please visit <http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx> (<https://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx>)

## CAREERS

An Engineering Design Technology 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

# Environmental Assessment and Restoration

Program Office: 403.382.6991 • [envisci@lethbridgecollege.ca](mailto:envisci@lethbridgecollege.ca)

Do you have an interest in chemistry and physics? Do you want to restore and protect the planet's land and water resources? Then pursue your passion in the Environmental Assessment and Restoration program. This two-year program will put you at the forefront of saving our planet.

In this practical, hands-on program focused on soil and water, your classroom theory will be reinforced with hands-on application during labs and fieldtrips that take you out into your future office – the great outdoors. Through a mix of science, law and technology, you'll learn how to restore the resources our world depends on, improve water quality and reclaim abandoned industrial sites.

## Supplies for Field Studies

Students on field studies are expected to provide their own equipment and supplies. This may include:

- 30 cm metric steel ruler
- adequate clothing for cold/wet weather
- backpack for gear
- binoculars
- digital camera (standard feature)
- field equipment vest (recommended)
- food
- hiking boots
- warm sleeping bag
- orienteering compass
- sunscreen
- safety glasses
- water bottle
- work gloves
- "write-in-the-rain" treated field notebook/surveyors book
- CSA approved steel-toed safety boots or approved toe caps (second year)

Equipment and supplies may not be required in all courses or terms. Please consult the course outlines for specific equipment required before purchasing. 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:

- 16x hand lens
- dissection kit
- lab coat
- metric triangular scale with 1:1, 1:2, 1:5, 1:10, 1:20 and 1:50 graduations
- safety glasses
- "write-in-the-rain" field notebook/surveyors book

Available from sporting, hardware and office supply stores:

- 4 GB or higher USB memory stick
- 12 or more coloured pencils (pencil crayons)
- 30 cm metric steel ruler
- binoculars (8X40 or 10X50 magnification)
- chest waders (rubber soled)
- clipboard
- Nexus Type 115 or Silva Ranger compass (with declination adjustment screw)
- scientific calculator (\$15-\$30 range)

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202 ext. 5594.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

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

## Graduation

Upon successful completion of all program requirements, students are awarded an Environmental Assessment and Restoration diploma.

## ADMISSIONS

New students are accepted into the Environmental Assessment and Restoration two-year diploma program for the Fall term (September) only.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1167	Botany <sup>1</sup>	3
BIO-1168	Zoology	3
RRM-1197	Spatial Information Techniques <sup>1</sup>	3
RRM-2253	Soil Resources	3
STS-1155	Descriptive Statistics	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
BIO-1170	Plant Systematics <sup>1</sup>	3
BIO-1172	Ecology <sup>1</sup>	3
ENG-1150	Composition	3
GEO-1166	Physical Geology <sup>1</sup>	3
RRM-2252	Water Resources	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
CHM-1155	Chemistry I	3
GEO-1165	Geographic Information Systems	3
LAW-1150	Introduction to Environmental Law	3
RRM-2256	Rangeland Management <sup>1</sup>	3
RRM-2264	Forest Management	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
CHM-2255	Chemistry II	3
ENV-2280	Contaminant Management <sup>1</sup>	3
ENV-2290	Site Reclamation <sup>1</sup>	3
RRM-2295	Hydrogeology <sup>1</sup>	3
SOL-2250	Soil Fertility	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> 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.

## 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

Graduates of Lethbridge College's Environmental Assessment and Restoration diploma program are eligible to transfer credit towards the completion of a Bachelor of Environmental Science at Griffith University, in Australia. All students will be provided with an approved course completion pathway at time of offer of admission into a Griffith program. For more information, please visit [www.griffith.edu.au/credit](http://www.griffith.edu.au/credit) (<https://www.griffith.edu.au/credit/>)

### Lethbridge College

Graduates of Lethbridge College's Environmental Assessment and Restoration diploma program may be eligible for up to 60 credits towards a Bachelor of Ecosystem Management or a Bachelor of Applied Science in Conservation Enforcement at Lethbridge College. Details regarding these programs can be found in the Academic Calendar or on the Lethbridge College website: <https://lethbridgecollege.ca/programs> (<https://lethbridgecollege.ca/programs/>)

### Royal Roads University

Graduates of Lethbridge College's Environmental Assessment and Restoration diploma program are eligible for full block transfer into the Bachelor of Science in Environmental Practice or the Bachelor of Arts in Environmental Practice at Royal Roads University. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science at Royal Roads University, with the completion of one additional university level math course (calculus or linear algebra preferred) on arrival.

### University of Alberta

Graduates of Lethbridge College's Environmental Assessment and Restoration diploma program receive up to 60 credits towards the Bachelor of Science in Environmental and Conservation Sciences, Land Reclamation major program at the University of Alberta. In order to receive the total allowable credits, applicants must present all diploma program requirements and meet the University of Alberta's entrance requirements.

### University of Lethbridge

Graduates of Lethbridge College's Environmental Assessment and Restoration diploma program with a minimum 2.75 GPA are eligible for admission into the University of Lethbridge's Post-Diploma Bachelor of Science (Environmental Science) program. Admitted students will be third-year degree level students in the university's Faculty of Arts and Science in all respects. For more information, please see an academic advisor and visit [www.uleth.ca](http://www.uleth.ca) (<https://www.uleth.ca>)

## CAREERS

### 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



## Exercise Science

Program Office: 403.394.7338 • exercisescience@lethbridgecollege.ca

Turn your passion for a healthy, active lifestyle into a career you love in the Exercise Science program. Designed to help you earn fitness certifications before you graduate, the Exercise Science program will get you on your way to a fast-paced career helping people of all ages and abilities maintain their physical well-being.

The rigorous two-year Exercise Science diploma program helps you muscle in on the science of physical activity. Using contemporary equipment (and lots of it), you'll break a sweat during classroom assignments that involve indoor and outdoor activities. And you'll have plenty of practical opportunities to work with actual clients. Experiences you can put towards earning industry certifications.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

Students will purchase a Lethbridge College Exercise Science shirt (\$30). The shirts are worn during practicum experiences.

Some specific courses and pursuing certification may require additional fees. Please contact the program for details.

## Graduation

Upon successful completion of all 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).

## ADMISSIONS

New students are accepted into the Exercise Science program for the Fall (September) term.

## General Admissions 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

## 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1169	Structural Human Anatomy	3
ENG-1159	Writing for the Workplace	3
EXS-1159	Exercise and Healthful Living	3
EXS-1178	Resistance Training	3
PSY-1168	Sport and Exercise Psychology	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
BIO-1155	Human Nutrition	3
BIO-1180	Human Physiology	3
EXS-1188	Movement Education	3
EXS-2252	Research Methods in Kinesiology	3
EXS-2260	Biomechanics and Applied Kinesiology	3
Elective		3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
COM-1162	Interpersonal Relationships and Communications	3
EXS-2256	Prevention and Care of Athletic Injuries	3
EXS-2261	Adapted Physical Activity	3
EXS-2262	Exercise Physiology	3
EXS-2267	Fitness Assessment	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
EXS-2258	Practicum	3
EXS-2259	Exercise Program Design	3
EXS-2271	Advanced Conditioning	3
EXS-2274	Exercise and Chronic Conditions	3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>63</b>

## 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.

Course	Title	Credits
BIO-1150	Cellular Basis of Life	3
BIO-1152	Physiology of Aging	3
BIO-1156	Wellness and Health Issues	3
BUS-1124	Service-Based Small Business Management	3
CPU-1151	Introduction to Computers	1.5
ENG-1150	Composition	3
HUM-1150	Logic	3
HUM-1155	Ethics	3
ORG-2254	Public Relations	3
PED-1180	Introduction to Coaching	3

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
PSY-1170	Human Development Across the Lifespan	3
PSY-1177	Psychology of Aging	3
PSY-2255	Psychology of Sports	3
SOC-1160	Introduction to Sociology	3
SOC-1167	Sociology of Aging	3
SOC-2250	Sociology of Sports	3
SOC-2273	Multicultural Issues	3

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### University of Lethbridge (*pending renewal*)

Graduates of Lethbridge College's Exercise Science diploma program with a minimum 3.00 GPA are eligible to be admitted into the University of Lethbridge's Post-Diploma Bachelor of Health Sciences program for completion of their Bachelor of Health Sciences degree. Once admitted, students will be third-year degree level students at the University of Lethbridge in its Faculty of Health Sciences in all respects. For more information, please see an academic advisor and visit [www.uleth.ca](http://www.uleth.ca) (<https://www.uleth.ca>)

## CAREERS

With a diploma in Exercise Science, you'll be ready to work in a variety of capacities in the health and wellness industry, for completing two industry certifications, or to continue your studies in a degree program:

- Business Entrepreneur
- Community Facilities
- Fitness Clubs
- Health/Resort Spas
- Medical Clinics
- Personal Fitness Care
- Physiotherapy Clinics
- Recreation Groups
- Rehabilitation Agencies
- Schools/Outreach Programs
- Senior Centres
- Sport Organizations

# General Arts and Science

Program Office: 403.394.7338 • generalstudies@lethbridgecollege.ca

Not sure which direction you want to take your career in yet? No problem. Build a well-rounded foundation for further education in our General Arts and Science program. With readily transferable courses, flexible delivery methods and personal timetables, it's easy to create an education fit for your future in the General Arts and Science program.

Starting your university degree at Lethbridge College just makes sense. With small class sizes, instructors who know you by name, a supportive and personalized environment, and about 95 per cent of your courses transferable to colleges and universities across Canada and the world, starting here truly can take you anywhere.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://www.lethbridgecollege.ca/programs/) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a General Arts and Science diploma with designated major.

## ADMISSIONS

Students are accepted into the General Arts and Science program for the Fall (September), Winter (January) or Spring (May) terms.

## General Admissions Requirements

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

## CURRICULUM

### General Studies Diploma

Students wishing to qualify for a General Arts and Science 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. Must complete a minimum of 15 credits at the 2000 level (including courses from any discipline or program). Must take a maximum of 12 courses (36 credits) from one discipline/subject area as identified by the course prefix (e.g., PSY, SOC, ENG).

Course	Title	Credits
<b>Career and Personal Skills Development</b>		
BLK-1151	Blackfoot Language I	3
BLK-2251	Blackfoot Language II	3
BUS-1170	Introduction to Management	3

COL-1130	Achieving College Success	3
CMM-2295	Telling Stories II: Script to Screen	3
COM-1162	Interpersonal Relationships and Communications	3
COM-1170	Helping Relationships	3
CPL-1150	Community Service Learning	3
CPL-2250	Community Service Learning II	3
CPU-1151	Introduction to Computers	1.5
CPU-2251	Computer Applications	1.5
ENG-2291	Literary Magazine	3
EXS-1159	Exercise and Healthful Living	3
EXS-1178	Resistance Training	3
LAR-1130	College Reading and Writing	3
PED-1157	Health, Wellness and Personal Fitness	1.5
PED-1175	Baseball	1.5
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	3
SPN-1150	Introductory Spanish	3
SPN-1151	Introductory Spanish II	3
<b>Social Sciences</b>		
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	3
HIS-2265	Canadian History	3
HIS-2270	American History	3
PSC-1150	Local Government	3
PSC-1161	Introduction to Politics	3
PSC-1165	Canadian Government	3
PSC-2250	Parties and Elections	3
PSC-2260	International Relations	3
PSC-2280	Political Philosophy	3
PSY-1160	Introduction to Psychology	3
PSY-1168	Sport and Exercise Psychology	3
PSY-1170	Human Development Across the Lifespan	3
PSY-1171	Child Growth and Development	3
PSY-1177	Psychology of Aging	3
PSY-1179	Adolescent Development	3
PSY-1191	The Developing Brain	3
PSY-2253	Child Psychopathology	3
PSY-2255	Psychology of Sports	3
PSY-2260	Abnormal Psychology	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	3

SOC-1167	Sociology of Aging	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

**Sciences**

ARK-1165	Introduction Into Archaeology	3
BIO-1150	Cellular Basis of Life	3
BIO-1151	Environmental Issues	3
BIO-1152	Physiology of Aging	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	3
BIO-1168	Zoology	3
BIO-1169	Structural Human Anatomy	3
BIO-1180	Human Physiology	3
CHM-1150	Introduction to Chemistry I	3
GEO-1166	Physical Geology	3
MTH-1156	Techniques of Calculus	3
MTH-1160	Calculus I	3
MTH-1165	Calculus II	3
PHY-1150	Introduction to Physics I	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-2251	Blackfoot Language II	3
HUM-1150	Logic	3
HUM-1155	Ethics	3
HUM-1158	Creative Problem-Solving	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
HUM-2281	Christianity	3
HUM-2285	Buddhism	3
HUM-2291	Film Studies	3
INS-1150	Exploring Indigenous Perspectives	3
INS-1155	Introduction to Indigenous Studies	3
MUS-1150	Music Appreciation	3
SPN-1150	Introductory Spanish	3
SPN-1151	Introductory Spanish II	3

**English**

ENG-1150	Composition	3
ENG-1159	Writing for the Workplace	3
ENG-1165	Introduction to Creative Writing	3
ENG-1180	Survey of Canadian Literature	3
ENG-1185	Writing for Children and Young Adults	3
ENG-1190	Introduction to Language and Literature	3

ENG-2260	Introduction to Dramatic Literature	3
ENG-2265	Indigenous Literature	3
ENG-2285	Children's Literature	3
ENG-2290	Writing for the Screen	3

**Electives**

Any other post-secondary courses to bring the total to 60 credits.

## General Arts and Science 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 distinct 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

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
ENG-1150	Composition	3
ENG-1190	Introduction to Language and Literature	3
HUM-1150	Logic	3
PSC-1161	Introduction to Politics	3
PSY-1160	Introduction to Psychology	3
<b>Credits</b>		<b>15</b>

**Term II**

BIO-1151	Environmental Issues	3
ENG-1165	Introduction to Creative Writing	3
ENG-1180	Survey of Canadian Literature	3
HIS-1170	Western Civilization	3
SOC-1160	Introduction to Sociology	3
<b>Credits</b>		<b>15</b>

**Year 2****Term I**

COM-1162	Interpersonal Relationships and Communications	3
ENG-2265	Indigenous Literature	3
ENG-2290	Writing for the Screen	3
HIS-2265 or HIS-2270	Canadian History or American History	3
Approved Elective		3
<b>Credits</b>		<b>15</b>

**Term II**

ENG-2260	Introduction to Dramatic Literature	3
ENG-2285	Children's Literature	3

HUM-2291	Film Studies	3
Approved Elective		3
Approved Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

## 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

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
ENG-1150	Composition	3
PSC-1161	Introduction to Politics	3
PSY-1160	Introduction to Psychology	3
PSY-1170	Human Development Across the Lifespan	3
SOC-1167	Sociology of Aging	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
BIO-1151	Environmental Issues	3
HIS-1170	Western Civilization	3
PSY-2280	Social Psychology	3
SOC-1160	Introduction to Sociology	3
SOC-2276	Sexuality	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
PSY-2260	Abnormal Psychology	3
SOC-2260	Social Problems	3
STS-2270	Social Science Research Methods	3
Approved Elective		3
Approved Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

## General Arts and Science - Liberal Arts Majors Approved Electives

Course	Title	Credits
ANT-1195	Cultural Anthropology	3
ANT-2295	Anthropology of Gender	3
ARK-1165	Introduction Into Archaeology	3
ARK-2261	Archaeology of Prehistoric Europe	3
ARK-2265	Archaeology of Ancient Civilizations	3
ART-1150	Art Explorations	3
ART-1170	Sculpture I	3
BIO-1150	Cellular Basis of Life	3
BIO-1152	Physiology of Aging	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	3
BLK-1151	Blackfoot Language I	3
BUS-1166	Business Law	3
CHM-1151	Chemistry in Context	3
CMM-2295	Telling Stories II: Script to Screen	3
COM-1162	Interpersonal Relationships and Communications	3
COM-1170	Helping Relationships	3
CPL-2250	Community Service Learning II	3
CPU-1151	Introduction to Computers	1.5
CPU-2251	Computer Applications	1.5
ECN-1180	Microeconomics	3
ECN-2253	Macroeconomics	3
ENG-1165	Introduction to Creative Writing	3
ENG-1180	Survey of Canadian Literature	3
ENG-1190	Introduction to Language and Literature	3
ENG-2260	Introduction to Dramatic Literature	3
ENG-2265	Indigenous Literature	3
ENG-2285	Children's Literature	3
ENG-2290	Writing for the Screen	3
ENG-2291	Literary Magazine	3
EXS-1159	Exercise and Healthful Living	3
HIS-2265	Canadian History	3
HIS-2270	American History	3
HUM-1150	Logic	3
HUM-1155	Ethics	3
HUM-1180	Introduction to World Religions	3
HUM-1190	Popular Culture	3
HUM-2281	Christianity	3
HUM-2285	Buddhism	3
HUM-2291	Film Studies	3
INS-1155	Introduction to Indigenous Studies	3
MUS-1150	Music Appreciation	3
PED-1180	Introduction to Coaching	3
PRS-1155	Speech	3
PSC-1150	Local Government	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	3
PSY-1171	Child Growth and Development	3
PSY-1177	Psychology of Aging	3
PSY-1179	Adolescent Development	3
PSY-2253	Child Psychopathology	3
PSY-2255	Psychology of Sports	3
PSY-2260	Abnormal Psychology	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	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

Other post-secondary courses open to General Arts and Science students may be considered.

## TRANSFERS

### Other Colleges and Universities

Many of the courses offered in General Arts and Science 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 Arts and Science at Lethbridge College. Please make an appointment to speak with an Academic Advisor at Lethbridge College if you wish to pursue this option.

## CAREERS

Start here, go anywhere! General Arts and Science 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.



## General Arts and Science - Indigenous Career Pathways

Program Office: 403.394.7338 • generalstudies@lethbridgecollege.ca

Weaving rich cultural heritage with high quality education, the Indigenous Career Pathways program allows you to enhance your opportunities for success while sampling a variety of Lethbridge College's program offerings. Designed to better prepare Indigenous students for the Lethbridge College programs of their choice, the Indigenous Career Pathways program seamlessly pulls together academic learning and cultural awareness.

In your first semester, you'll engage in a curriculum that further develops your academic skills and includes coursework in Canadian Indigenous culture and college success. Your second semester will focus on courses from a distinct program stream or, if you're still unsure of your path, you can opt to take courses from multiple program areas as you prepare for admission into the program of your choice.

### Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<http://www.lethbridgecollege.ca/programs/>) and select your program.

### Graduation

Upon successful completion of all program requirements, students are awarded a General Arts and Science - 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.

## ADMISSIONS

Students are accepted into the General Arts and Science - Indigenous Career Pathways program for the Fall (September) term.

### General Admissions 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)

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
COL-1130	Achieving College Success	3
INS-1150	Exploring Indigenous Perspectives	3
LAR-1130	College Reading and Writing	3
PSY-1140	Psychology and Life	3
<b>Credits</b>		<b>12</b>
<b>Term II</b>		
Select 1 of the following streams:		12
Agriculture Sciences		
Business Administration		
Child and Youth Care		
Computer Information Technology		
Criminal Justice Policing/Correctional Studies		
Early Childhood Education		
Environmental Assessment & Restoration/Natural Resource Compliance/Renewable Resource Management		
General Studies (University Transfer)		
Multimedia Production		
General Interest		
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

### Agriculture Sciences

Course	Title	Credits
BUS-1166	Business Law	3
COM-1162	Interpersonal Relationships and Communications	3
ENG-1150	Composition	3
SOL-1150	Agriculture Soils	3
<b>Total Credits</b>		<b>12</b>

### Business Administration

Course	Title	Credits
BUS-1170	Introduction to Management	3
BUS-1177	Entrepreneurship	3
ENG-1159	Writing for the Workplace	3
MKT-1188	Introduction to Marketing	3
<b>Total Credits</b>		<b>12</b>

## Child and Youth Care

Course	Title	Credits
CYC-1194	Activity Leadership	3
ENG-1150	Composition	3
HSP-1151	Family Systems and Development	3
PSY-1170	Human Development Across the Lifespan	3
<b>Total Credits</b>		<b>12</b>

## Computer Information Technology

Course	Title	Credits
BUS-1170	Introduction to Management	3
CIT-1163	Database Management Systems	3
ENG-1159	Writing for the Workplace	3
Select one of the following:		3
ACC-1170	Financial Accounting I	
MKT-1188	Introduction to Marketing	
<b>Total Credits</b>		<b>12</b>

## Criminal Justice Policing/Correctional Studies

Course	Title	Credits
CJP-1159	Ethics and Critical Thought	3
CJP-1160	Introduction to Criminal Justice System	3
ENG-1150	Composition	3
LAW-1177	Procedural Law in Canada	3
<b>Total Credits</b>		<b>12</b>

## Early Childhood Education

Course	Title	Credits
ECE-1151	Health, Safety and Nutrition	3
ECE-1154	Guiding Children's Behavior	3
ECE-1155	Introduction to Early Childhood Education	3
ENG-1150	Composition	3
<b>Total Credits</b>		<b>12</b>

## Environmental Assessment & Restoration/ Natural Resource Compliance/Renewable Resource Management

Course	Title	Credits
BIO-1167	Botany <sup>1</sup>	3
BIO-1172	Ecology <sup>1</sup>	3
ENG-1150	Composition	3
RRM-1197	Spatial Information Techniques <sup>1</sup>	3
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> Course has lab.

## General Studies (University Transfer)

Course	Title	Credits
ENG-1150	Composition	3
INS-1155	Introduction to Indigenous Studies	3
PSY-1160	Introduction to Psychology	3
SOC-1160	Introduction to Sociology	3
<b>Total Credits</b>		<b>12</b>

## Multimedia Production

Course	Title	Credits
BUS-1124	Service-Based Small Business Management	3
Select one of the following:		3
CAP-1158	Communication Process	
COM-1162	Interpersonal Relationships and Communications	
CMM-1185	The Principles of Animation	3
WRI-1150	Writing for Interactive Media	3
<b>Total Credits</b>		<b>12</b>

## 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.

# Geomatics Engineering Technology

Program Office: 403.320.3468 • [engineeringtech@lethbridgecollege.ca](mailto:engineeringtech@lethbridgecollege.ca)

Do you like a mix of outdoor and computer work? Then a career in digital mapping and surveying may be right for you. Geomatics is the science of taking spatial data and presenting it in a visual format. The Geomatics Engineering Technology program is nationally and internationally accredited by Technology Accreditation Canada.

Your first year will give you a comprehensive introduction to survey and engineering fundamentals. Through hands-on exercises, you'll become familiar with land surveying, mapping and data collection techniques. In your second year, you'll hone your skills in collecting high-precision location data, as well as mapping and analyzing it using industry-standard software applications.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://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/](https://www.lethbridgecollege.ca/mobilelearning/) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

## Graduation

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

## National and International Accreditation

The Geomatics Engineering Technology program is nationally accredited with Technology Accreditation Canada (TAC). *A TAC nationally accredited program represents excellence in education, providing students, parents, faculty and industry confidence the program has met the standards of the profession and graduates have the requisite knowledge and skill set to competently enter the workforce. - Technology Accreditation Canada.*

As a result of the accreditation with TAC, all graduates of the Geomatics Engineering Technology program are also internationally accredited.

## ADMISSIONS

New students are accepted into the Geomatics Engineering Technology program in the Fall (September) term only.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>16.5</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>21</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>16.5</b>
<b>Term III</b>		
<b>(Optional)</b>		
GEO-2298	Work Experience	1.5
<b>Credits</b>		<b>1.5</b>
<b>Total Credits</b>		<b>73.5</b>

## Practicum Experience Requirements

There is an elective practicum component to this program. Lethbridge 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.

## TRANSFERS

### British Columbia Institute of Technology (BCIT)

Lethbridge College's Geomatics Engineering Technology diploma graduates are eligible for block transfer into the third year of the Bachelor of Science in Geomatics program at BCIT.

### Lethbridge College

Graduates of Lethbridge College's Geomatics Engineering Technology diploma program may earn a second diploma in Civil Engineering Technology or Engineering Design Technology with an additional 1½ years of study (course schedule permitting).

### Northern Alberta Institute of Technology (NAIT)

Graduates of Lethbridge College's Geomatics Engineering Technology diploma program with a minimum GPA of 2.7, or a B- grade, on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology) degree program. Applicants for transfer of credit 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

Lethbridge College's Geomatics Engineering Technology diploma graduates with a GPA of 3.0 or higher are eligible for full block transfer into the Bachelor of Commerce in Entrepreneurial Management at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

### University of Alberta

Lethbridge College's Geomatics Engineering Technology diploma graduates with a GPA of 3.5 or higher are eligible to receive up to one year of transfer credit towards a Bachelor of Science (Engineering) at the University of Alberta. Admission is subject to the specific program, appropriate grades, and space availability. For the most current information on transferring to the Faculty of Engineering, please visit <http://www.engineering.ualberta.ca/ProspectiveStudents/Admission/AdmissionRequirements/Technicalprograms.aspx>

### University of Lethbridge

Graduates of Lethbridge College's Geomatics Engineering Technology diploma program with a minimum GPA of 2.50 are eligible for admission

into the University of Lethbridge's Post-Diploma Bachelor of Science (Geography, with a Concentration in GIS). Admitted students will be third-year degree level students in the university's Faculty of Arts and Science in all respects. For more information, please see an academic advisor and visit [www.uleth.ca](http://www.uleth.ca) (<https://www.uleth.ca>)

## CAREERS

- Environmental Consulting
- Geographic Information Systems Analyst
- Geographic Information Systems Technologist
- Land Planning & Mapping
- Mapping Technologist
- Natural Resources Technologist
- Precision Agriculture Analyst
- Survey Assistant
- Survey Party Chief
- Survey Plan Checker

# Heavy Equipment Technician Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

Do you enjoy problem solving and working with your hands? Can you work in cramped or awkward positions for long periods of time? If so, the Heavy Equipment Technician Apprenticeship might be right for you. Over four years, you'll gain all the mechanic skills and abilities required to enter this dynamic career.

Mixing technical experience with on-the-job training, you'll spend the majority of your time learning from a qualified heavy equipment technician on the job and the rest in specialized courses taught by experienced instructors. you'll learn how to interpret work orders and technical manuals; maintain, diagnose, adjust, repair or replace equipment; and test repaired components for optimal performance.

**The job prospects for heavy equipment technicians are strong now and into the future. Get started on the road to your career – apply for the apprenticeship program today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require eight weeks of classroom training each year in addition to on-the-job training.

### Courses include:

- Hydraulics 1 and hydraulic brake systems
- Air brakes
- Engine fundamentals, service and repair
- Diesel fuel injection systems
- Powertrain (specific to off-road)
- Heavy duty charging and cranking systems

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/019\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/019_outline.pdf)) for the Heavy Equipment Technician.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

Once you finish your apprenticeship, you'll be able to start your career in industries that use heavy equipment such as:

- Mining
- Forestry
- Construction
- Landscaping
- Agriculture
- Transportation
- Manufacturing

[https://tradesecrets.alberta.ca/trades-occupations/profiles/0191/Heavy Equipment Technician](https://tradesecrets.alberta.ca/trades-occupations/profiles/0191/Heavy%20Equipment%20Technician)

# Health Care Aide - Government of Alberta

Program Office: 403.320.3310 • healthcareaide@lethbridgecollege.ca  
 Centre for Health and Wellness Work-Integrated Learning Office:  
 403.320.3202 Ext. 5380

Advance your desire to help by choosing to embark on a career as a Health Care Aide (HCA) who provides direct care, personal assistance and support to patients who are ill, elderly or disabled. This Government of Alberta program is delivered through a mix of theory, lab and work-integrated learning experiences, the Health Care Aide program prepares you to become a valued member of the health care team.

In the classroom, you'll develop an understanding of safe work practices, client support and hygiene, medication delivery and everything else you need to know to positively affect the lives of patients each day. During your work-based practical experiences, you'll put theory into practice, providing client-focused services and assistance with daily living activities.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, and successfully passing the Alberta Provincial HCA Examination, students are awarded a Health Care Aide certificate.

## ADMISSIONS

New students are accepted into the Health Care Aide program for the Fall (September) term.

## General Admissions 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):

- A minimum grade of 60 percent in Grade 11 English (equivalent to Alberta's English 20-2) OR equivalency determined by Accuplacer.

Applicants whose first language is not English must demonstrate English Language Proficiency (ELP) through one of the following acceptable methods:

- Canadian Language Benchmark (CLB) 7 in each of speaking, listening, reading and writing (not an average of 7)
- Studies in English at an approved Canadian high school (grades 9, 10, 11, 12) with at least 3 consecutive years of full-time academic study.
- A recognized Post-Secondary diploma program in Canada (involved in at least 2 full years of full-time, consecutive academic study in English)

- International English Language Testing System (IELTS) Academic: 6 (no section score below 5.5)
- Test of English as a Foreign Language Internet Based Testing (TOEFL iBT): 71
- Canadian English Language Proficiency Index Program (CELPPIP) General: 7 (with no section below 6).

**Note:** Effective Fall 2023, admission requirement will be changing to the following:

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 (equivalent to Alberta's English 20-1 or English 20-2) with a minimum score of 60% achieved or Canadian jurisdiction equivalent; **or**
- Grade 12 English (equivalent to Alberta's English 30-1 or 30-2) with a minimum of 55% or Canadian jurisdiction equivalent; **or**
- Deemed equivalency by completion of ACCUPLACER (assessment placement test) reading and writing tests, with a minimum score of 237 in each category.

Applicants where English is a Second Language (ESL) **must also** meet the English Language Proficiency requirement **in addition to** the Academic English requirement. Equivalencies are as follows:

- By attending high school in Canada. Studies must have been in English at an approved Canadian high school (grades 9, 10, 11, 12) with at least three consecutive years of full-time academic study; **or**
- By completing a recognized post-secondary degree or diploma program in Canada. The program must have involved at least two full years of full-time, consecutive academic study in English; **or**
- By completing one of the **Approved ELP Tests**.
- Official test results must be submitted directly to the PSI.

### Approved English Language Proficiency (ELP) Tests:

1. International English Language Testing System (IELTS) Academic: 6 (no section score below 5.5);
2. Test of English as a Foreign Language Internet Based Testing (TOEFL iBT): 71;
3. Canadian English Language Proficiency Index Program (CELPPIP) General: 7 (with no section score below 6);
4. Canadian Language Benchmarks Tests/Milestones Test (7 in each strand, not an average of 7);
5. Duolingo English Test (minimum score of 95); and
6. Canadian English Language Benchmark Assessment for Nurses (CELBAN): 7 in each area of listening, reading, writing and speaking, not an average of 7.

#### Notes

**Test Currency:** results must have been obtained within two years of the start date of the program.

**Test Validity:** IELTS (Academic) and TOEFL results are valid for two years from the day of testing.

Results that expire prior to the Start Date of the program will not be accepted

It is recommended applicants possess the following knowledge of computer/technology tools to be successful in the program.



- Be able to communicate, research and understand information
- Know how to use computer to surf web, email
- Be able to critically evaluate and understand how technology can affect one's behavior
- Be able to create, produce content and effectively communicate using email, media, internet

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
HCA-1130	Health Care Aide Role and Responsibility	3
HCA-1131	The Human Body, Health and Chronic Illness	3
HCA-1132	Communication and Documentation in the Health Care Environment	3
HCA-1133	Providing Person-Centered Care and Comfort	6
HCA-1134	Clinical Placement I	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
HCA-1135	Meeting Complex Care Needs	6
HCA-1136	Special Activities for Clients With Various Health Conditions	6
HCA-1137	Clinical Placement II	6
HCA-1138	Consolidated Clinical Placement	3
<b>Credits</b>		<b>21</b>
<b>Total Credits</b>		<b>39</b>

### Important Note:

- Students graduating from the program are required by Alberta Health to register into the Alberta HCA Directory. The academic program is required to provide graduates names directly to the Alberta HCA Directory.
- Students must pass the Alberta Provincial HCA examination to graduate from the program and receive a certificate. A student has a maximum of 60 days from program completion to write and pass the Provincial Examination within three attempts (initial examination and two re-writes). Students who are not successful in passing the Provincial HCA Exam must re-take the HCA Program. Details and fees associated with writing the provincial exam will be provided prior to registration in the Health Care Aide program.
- 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.
- 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.
- Students must pass each course with a minimum of 70%.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

All Post-Secondary Institutions (PSIs) offering the Government of Alberta HCA Provincial Curriculum (2019) will allow transfer credit on a course by course basis from other PSIs offering the Government of Alberta HCA Provincial Curriculum (2019). Up to 50% of course credits or hours can be transferred from one program to another.

## CAREERS

Your certificate in the Health Care Aide - Government of Alberta program will prepare you for a wide range of employment opportunities, including:

- Physician Offices
- Health Care Agencies
- Hospice Facilities
- Hospitals
- Long-term Care Facilities
- Medical Clinics
- Private Health Care Providers
- Home Care
- Respite Facilities

# Interior Design Technology

Program Office: 403.320.3468 • interiordesign@lethbridgecollege.ca

Are you able to look at a space and visualize its potential? Do you enjoy designing and seeing a project through from start to finish? If so, the Interior Design Technology program might be right for you. The two-year program, offered both through fully online and in-person delivery methods, is structured around the professional standards of the Council for Interior Design Accreditation.

In the classroom, our experienced instructors will stimulate your imagination while showing you how to develop creative yet practical solutions to create healthy, productive and exciting living and working environments. With our hands-on approach to training, you'll use laptops loaded with industry-standard software, put classroom theory into practice during group projects and gain valuable experience working on real-world design projects.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

A personal computer and a tablet/iPad and pencil bundle will be required to complete the Interior Design diploma program.

Email the Interior Design department for more information on specific costs.

## Unique Program Feature

Students who have graduated from the two-year Interior Design Technology program will only require one additional year to complete the Architectural Animation Technology program. Graduates of the Architectural Animation Technology program will only require one additional year to complete the Interior Design Technology program.

## Graduation

Upon successful completion of all program requirements, students are awarded an Interior Design Technology diploma.

## ADMISSIONS

New students are accepted into the Interior Design Technology program for the Fall (September) term.

## General Admissions 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)

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
IDM-1158	Representations I	3
IDM-1163	Design History I	3
IDM-1170	Colour and Lighting	3
IDM-1179	Design Fundamentals	3
IDM-2255	Materials and Finishes	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
IDM-1159	Digital Ideation	3
IDM-1167	Interior Detailing I	3
IDM-1173	Design History II	3
IDM-1181	Residential Design Studio	3
IDM-1190	Digital Drafting	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
Select 1 of the following:		3
ENG-1150	Composition	
ENG-1159	Writing for the Workplace	
IDM-1155	Professional Practice	3
IDM-2267	Interior Detailing II	3
IDM-2278	Corporate Design Studio	3
IDM-2290	Bldg Information Modeling	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>18</b>
<b>Total Credits</b>		<b>63</b>

## Practicum Experience Requirements

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

## TRANSFERS

### Royal Roads University

Graduates of Lethbridge College's Interior Design Technology diploma program who have a GPA of 3.0 or higher and complete an additional 3-credit university level accounting or business math course are eligible to be admitted into the third year of the Bachelor of Commerce in Entrepreneurial Management at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

## Yorkville University

Graduates of Lethbridge College's Interior Design Technology diploma program are eligible to receive up to 72 credits towards the Bachelor of Interior Design (BID) at Yorkville University.

## CAREERS

Our diploma program in Interior Design Technology will prepare you to work with design teams in a wide variety of fields.

- Interior Design Technologist
- Home Stager and Decorator
- Kitchen and Bath Designer
- Product Sales Representative
- Residential and Commercial Space Planner

# Justice Studies - Bachelor of Applied Arts

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

Designed for individuals at any stage in their justice careers or educational journeys, the Bachelor of Applied Arts in Justice Studies program builds on the fundamentals of the justice field and hones your critical thinking and research skills with a responsive curriculum that provides opportunities in a variety of municipal, provincial and federal jurisdictions.

After completing a diploma in Criminal Justice – Policing, Correctional Studies, or Child and Youth Care, you'll take an additional two years to earn your Bachelor of Applied Arts in Justice Studies. In year three, your focus will be on current and emerging issues in justice. For your final year, you'll gain valuable first-hand experience during a directed field study at a justice agency.

## 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.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## 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.

## 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) term for on-campus and online study and also in the Spring (May) term for online study.

## General Admissions 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 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.

## CURRICULUM

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.

Course	Title	Credits
<b>Year 1</b>		
See the Correctional Studies diploma or Criminal Justice - Policing diploma		36
<b>Credits</b>		<b>36</b>
<b>Year 2</b>		
See the Correctional Studies diploma or Criminal Justice - Policing diploma		33
<b>Credits</b>		<b>33</b>
<b>Year 3</b>		
<b>Term I</b>		
HUM-3350	Ethics in Justice	3
JUS-3351	Introduction to Research Methods in Justice	3
JUS-3352	Social Justice	3
Select 2 Approved Electives: <sup>1</sup>		6
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
HUM-3355	Critical Thinking	3
JUS-3388	Orientation to Directed Field Studies	1.5
MGT-3370	Management in Justice Organizations	3
PSY-3350	The Psychology of Criminal Behaviour	3
Select 2 Approved Electives: <sup>1</sup>		6
<b>Credits</b>		<b>16.5</b>

**Year 4****Directed Field Study <sup>2</sup>**

## 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 <sup>3</sup>	3
JUS-4461	Identified Population Study	3

## Elective Courses

Select 5 of the following: 15

JUS-4450	Directed Topics in Criminal Justice <sup>3</sup>	
JUS-4457	Community Involvement for Professionals	
JUS-4464	Applied Research 1 <sup>4</sup>	
JUS-4465	Diversity Seminar <sup>3</sup>	
JUS-4468	Applied Research 2 <sup>4</sup>	
JUS-4469	Program Development and Management	
JUS-4474	Safety in the Justice Environment	
JUS-4475	Critical Incident Analysis	
JUS-4480	Community Relationship Analysis	
JUS-4481	Strategic Planning/Project Management	
JUS-4482	Human Resources Management Justice Organizations	
JUS-4483	Applied Leadership Justice Organizations	
JUS-4484	Financial Management in Justice Organizations	

**Credits 30****Total Credits 130.5**<sup>1</sup> 2 courses from List A and 2 courses from List B.<sup>2</sup> 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 JUS-3388 Orientation to Directed Field Studies (1.5 credits) (Orientation to DFS).<sup>3</sup> DFS placement not required to take this course.<sup>4</sup> DFS placement recommended but not required to take this course.**List A Electives (Populations)**

Course	Title	Credits
Select 2 of the following:		
JUS-3350	Victimology	3
JUS-3357	Contemporary Youth Justice in Canada	3
JUS-3360	Indigenous Peoples and Culture in Justice	3
JUS-3378	Women in Justice	3
PSY-2277	Addictions Treatment	3

**List B Electives (Operational Systems)**

Course	Title	Credits
Select 2 of the following:		
JUS-3369	Program Evaluation	3
JUS-3372	Directed Topics in Criminal Justice	3
JUS-3387	Crisis Management	3
MGT-3375	Leadership in Justice Organizations	3

**PRACTICUM****Work-Integrated Learning (WIL) Pre-Placement Requirements**

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

**CAREERS**

When you graduate, 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
- Criminal, Intelligence, and Criminal Analysis
- Intelligence Surveillance Officers
- Parole Officers



- Probation Officers
- Supervisors/Managers in Justice Organizations

# Medical Device Reprocessing

Program Office: 403.320.3310 • [csp@lethbridgecollege.ca](mailto:csp@lethbridgecollege.ca)  
 Centre for Health and Wellness Work-Integrated Learning Office:  
 403.320.3202 Ext. 5380

Play a vital role in health care with a Medical Device Reprocessing certificate. Built around the concepts required to shine in this detail-driven field, our Medical Device Reprocessing program prepares you to write either the International Association of Healthcare Central Service Materiel Management exam or the Canadian Standards Association exam to become a Certified Registered Central Service Technician.

In approximately 26 weeks, you'll learn the science behind and the techniques required for the precise skills of hospital instrument sterilization. During a work-integrated learning opportunity, you'll hone your skills and understanding of what it takes to play an essential role in health care as a medical device reprocessing technician.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Medical Device Reprocessing certificate.

## ADMISSIONS

New students are accepted into this program for the Fall (September) term only.

## General Admissions Requirements

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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1162	Microbiology	3
COM-1162	Interpersonal Relationships and Communications	3
CPU-1151	Introduction to Computers	1.5
CSP-1150	Medical Terminology/Anatomy and Physiology	3
CSP-1160	Practices Surgical Instrument Processing	6
ENG-1159	Writing for the Workplace	3
<b>Credits</b>		<b>19.5</b>
<b>Term II</b>		
CSP-1142	MDR Practicum	6
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>25.5</b>

Some courses are also available on-campus. Please refer to the online Academic Timetable for course availability.

### Important Notes:

- BIO-1162 Microbiology (3 credits) has an on-campus lab experience to support knowledge/skill development. Attendance is required.
- CSP-1142 MDR Practicum (6 credits) is a 400 hour, full-time, face-to-face work-integrated learning course which can occur in a variety of reprocessing sites. Due to the limited availability of practicum sites, students may be required to relocate from their home community to complete the practicum placements. If you would like an alternate placement, contact the program to discuss options. Staggered practicum start dates are necessary to ensure placement sites.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## CAREERS

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

# Massage Therapy

Program Office: 403.320.3211 • massagetherapy@lethbridgecollege.ca

Give new meaning to hands-on work with a diploma in Massage Therapy. Our 2,200-hour accredited Massage Therapy program will immerse you in the field, focusing on the knowledge, skills and attributes necessary for success as a registered massage therapist. It's a field that demands considerable personal commitment, professionalism, and physical and emotional stamina – but it's immensely rewarding.

Your classroom theory on how the body works and proper therapeutic techniques will be perfectly complemented by 700 hours of hands-on practicum experiences. In our on-campus student massage clinic, at independent businesses and in community settings, you'll put into practice and improve upon your therapeutic massage skills, cultivate client-therapist relationships and develop essential business acumen.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://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 work-integrated learning experiences.

As part of the program requirements, students are expected to book a massage with a registered massage therapist prior to entering the program. This can cost anywhere from \$40 - \$100.

## 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.

## 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 Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1160	Anatomy and Physiology I	3
CSP-1150	Medical Terminology/Anatomy and Physiology	3
ENG-1159	Writing for the Workplace	3
MAS-1122	Practicum I	1.5
MAS-1140	Basic Massage	3
MAS-1152	Professional Practices Massage Therapy	3
<b>Credits</b>		<b>16.5</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>16.5</b>
<b>Year 2</b>		
<b>Term I</b>		
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
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>18</b>
<b>Total Credits</b>		<b>66</b>

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WILs 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.

## TRANSFERS

### Thompson Rivers University

Lethbridge College's Massage Therapy diploma graduates are eligible to receive up to 54 transfer credits into the Bachelor of Health Science or up to 60 transfer credits into the Bachelor of General Studies at Thompson Rivers University.

### University of Lethbridge *(pending renewal)*

Graduates of Lethbridge College's Massage Therapy diploma program with a minimum 3.00 GPA are eligible to apply to the University of Lethbridge's Post-Diploma Bachelor of Health Sciences program for completion of their Bachelor of Health Sciences degree. Once admitted, students will be third-year degree level students at the University of Lethbridge in its Faculty of Health Sciences in all respects.

## CAREERS

You will be prepared to work as a massage therapist in a growing number of fields, including:

- Massage Clinics and Spas
- Private Health Care Providers
- Sports Medicine Clinics
- Chiropractic Clinics
- Independent Practitioners
- Long-Term Care Facilities

# Multimedia Production

Program Office: 403.320.3468 • multimedia@lethbridgecollege.ca

Bring your creativity to life through digital design and interactive programming with a diploma in Multimedia Production. In this interactive, technology-based program, you'll learn to blend audio, video, animation, graphics and text in a digital environment to create memorable experiences.

The Multimedia Production program will prepare you for a rewarding career in the industry, ensuring your skill development in new technologies is complemented by essential business skills in identifying, developing and pitching commercially viable ideas. During a practicum in your final semester, it'll all come together as you gain valuable first-hand experience in the industry before you even graduate.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://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](https://lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

## Graduation

Upon successful completion of all program requirements, students are awarded a Multimedia Production diploma.

## ADMISSIONS

New students are accepted into the Multimedia Production program for the Fall (September) term.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
CMM-1153	Digital Audio	3
CMM-1156	Digital Video	3
CMM-1163	Scripting for Multimedia and the Web	3
DES-1155	Graphic Design	3

RSR-1160	Research and Writing for New Media	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
Select 1 of the following:		3
CAP-1158	Communication Process	
COM-1162	Interpersonal Relationships and Communications	
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
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
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 (Core Integration)	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
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
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

## Practicum Experience Requirements

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

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Multimedia Production diploma program will receive two years' credit (60 credits) towards a Bachelor of Professional Arts - Communications Studies Major, a 120-credit program, at Athabasca University.

### Royal Roads University

Lethbridge College's Multimedia Production diploma graduates are eligible for block transfer into the third year of the Bachelor of Arts in Professional Communication program at Royal Roads University. For more information, please visit <https://www.royalroads.ca>

### University of Calgary

Lethbridge College's Multimedia Production diploma graduates will be considered for entrance into the University of Calgary's Post-Diploma Bachelor of Communications Studies. For more information, please visit <https://www.ucalgary.ca/>



## CAREERS

Our Multimedia Production diploma will prepare you for entry-level positions in a wide range of fields, including:

- 2D/3D Animation
- Freelance
- Front-end Development
- Interactive Advertising/Marketing
- Interactive Narrative Design
- Mobile App Development
- Motion Graphics
- New Media E-Learning
- New Media Entrepreneurship
- Social Media
- User Experience Design
- Web and Interactive Media Design
- Web and Interactive Programming/Development
- Web Game/Simulation Design/Development

# Natural Resource Compliance

Program Office: 403.382.6991 • [envisci@lethbridgecollege.ca](mailto:envisci@lethbridgecollege.ca)

Focusing on the core of conservation enforcement – “bears and bad guys,” as one instructor explains – the Natural Resource Compliance program turns the outdoor activities you enjoy into a career you’ll love. If you’re thinking of a career in conservation enforcement, start in the Natural Resource Compliance program.

You’ll put in two fast-paced years learning about natural resources and how to detect and investigate natural resource violations through a mixture of lectures, labs and field trips. With our blend of academic and practical learning, you’ll be equipped with the skills and knowledge to begin upholding the law and protecting the resources of our beautiful landscape and wildlife.

## 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.

## Field Studies Supplies

Students on field studies are expected to provide their own equipment and supplies. This may include:

- 30 cm metric steel ruler
- adequate clothing for cold/wet weather
- backpack for gear
- binoculars
- digital camera (standard feature)
- field equipment vest (recommended)
- food
- hiking boots
- orienteering compass
- sunscreen
- safety glasses
- water bottle
- warm sleeping bag
- work gloves
- “write-in-the-rain” treated field notebook/surveyors book

Equipment and supplies may not be required in all courses or terms. Please consult the course outlines for specific equipment required before purchasing. 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:

- 16x hand lens
- dissection kit
- lab coat
- metric triangular scale with 1:1, 1:2, 1:5, 1:10, 1:20 and 1:50 graduations
- safety glasses
- “write-in-the-rain” field notebook/surveyors book

Available from Sporting, Hardware and Office Supply Stores:

- 4 GB or higher USB memory stick
- 12 or more coloured pencils (pencil crayons)
- 30 cm metric steel ruler
- binoculars (8X40 or 10X50 magnification)
- chest waders (rubber soled)
- clipboard
- Nexus Type 115 or Silva Ranger compass (with declination adjustment screw)
- scientific calculator (\$15-\$30 range)

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202 ext. 5594.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

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

## Graduation

Upon successful completion of all program requirements, students are awarded a Natural Resource Compliance diploma.

## ADMISSIONS

New students are accepted into the Natural Resource Compliance program for the Fall term only.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1172	Ecology <sup>1</sup>	3
CEN-2255	Ethics and Career Development	3
ENG-1150	Composition	3
GEO-1166	Physical Geology	3
LAW-1161	Introduction to Natural Resource Law	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
BIO-1167	Botany <sup>1</sup>	3
BIO-1168	Zoology <sup>1</sup>	3
COM-2263	Interpersonal Skills in Enforcement	3
RRM-1197	Spatial Information Techniques <sup>1</sup>	3
STS-1155	Descriptive Statistics	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
CEN-2259	Operational Procedures	3
ENV-2265	Parks and Recreation Operations	3
LAW-2264	Courtroom Procedures	3
RRM-2250	Grassland and Forest Resources <sup>1</sup>	3
RRM-2299	Fire Management <sup>1</sup>	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
CEN-2267	Natural Resource Legislation	3
CEN-2269	Field Investigation Techniques <sup>1</sup>	3
RRM-2258	Principles of Wildlife Biology <sup>1</sup>	3
RRM-2259	Principles of Fishery Science <sup>1</sup>	3
RRM-2298	Conservation Biology	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> 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.

## TRANSFERS

Interested students can obtain further information on these partnerships from the School of Environmental Sciences Chair. Students who wish to continue studies at other institutions must meet the entrance requirements of that institution.

## Lethbridge College

Lethbridge College's Natural Resource Compliance diploma graduates may be eligible to receive up to 60 credits towards a Bachelor of Applied Science in Conservation Enforcement or a Bachelor of Ecosystem Management. Details regarding these programs can be found in the Academic Calendar or on the Lethbridge College website (<https://lethbridgecollege.ca/>).

## Royal Roads University

Graduates of Lethbridge College's Natural Resource Compliance diploma program are eligible for full block transfer into the Bachelor of Science in Environmental Practice or the Bachelor of Arts in Environmental Practice at Royal Roads University. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science, with the completion of one additional university-level math course (calculus or linear algebra preferred) and two university-level chemistry courses on arrival.

## CAREERS

- 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

# Nursing - Bachelor of

Program Office: 403.320.3348 • NESARN@lethbridgecollege.ca

Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

Due to the nature of the program, it is recommended that prospective students contact an Academic Advisor with initial inquiries. Call 403.320.3366 or 1.800.572.0103 ext 3366.

Be ready to receive a top-quality education in an environment known for producing highly qualified nurses. Delivered in collaboration with the University of Lethbridge, the Bachelor of Nursing program blends theory and practice to help you develop skills in clinical reasoning, innovative clinical practice, leadership and the use of innovative technologies.

In this student-centered program, you'll be encouraged to be responsible for your learning with guidance from experienced instructors. Course-related practice-based experiences in hospitals, community health care and home care agencies will let you apply your newfound knowledge in the real world.

## Academic Standards

During orientation to the program, students receive a handbook outlining all the program policies. It is very important for students 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) <sup>1</sup>	Good Standing	Academic Probation	Required Withdrawal	Minimum Course Grade Requirements <sup>2</sup>	GPA Requirements for Graduation
0-5	1.70 or higher	0.00 - 1.69	-		*Minimum
6-10	1.70 or higher	1.50 - 1.69	Below 1.50		cumulative GPA
11-20	1.85 or higher	1.70 - 1.84	Below 1.70		of 2.00 AND
21-30	2.00 or higher	1.85 - 1.99	Below 1.85		*Minimum
31-40	2.00 or higher	-	Below 2.00		NURS/HLSC GPA of 2.50

<sup>1</sup> The number of completed courses is based on a standard 3.0 credit-hour course.

<sup>2</sup> All Nursing courses and BIO/KNES 1160 and BIO/KNES 1161 must attain a minimum grade of C-

## 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 practice 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 NESAR 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 practice-based experiences may require a student to leave a practice 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 designate, will review the case in a timely fashion to determine whether, and under what conditions, the student may return to the practice setting.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

Students are expected to travel for practice-based experiences, as required, 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.

## 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.

## Admission Routes

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

1. Alberta or other Canadian high school credentials.
2. Transfer from recognized colleges or universities.
3. Special Case Admission.
4. 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 and human anatomy/physiology 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.

## 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1160	Anatomy and Physiology I (U of L KNES-1160)	3
ENG-1150	Composition (U of L WRIT-1000)	3
INS-1155	Introduction to Indigenous Studies (U of L INDG-1000)	3
NSG-1400	Becoming a Nurse (U of L NURS-1400)	3
NSG-1410	Personal Health and Wholeness (U of L NURS-1410)	3
NSG-1420	Intersectionality and Health (U of L NURS-1420)	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
BIO-1155	Human Nutrition (U of L BCHM-2300)	3
BIO-1161	Anatomy and Physiology II (U of L KNES-1161)	3
NSG-1500	Caring Communication (U of L NURS-1500)	3
NSG-1521	Assessing Health (U of L NURS-1521)	3

NSG-1522	Introduction to Praxis (U of L NURS-1522)	3
PSY-1160	Introduction to Psychology (U of L PSYC-1000)	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
HUM-1155	Ethics (U of L PHIL 1000)	3
NSG-2300	Evidence and Praxis (U of L NURS-2300)	3
NSG-2321	Health of Persons (U of L NURS-2321)	6
NSG-2322	Praxis With Persons (U of L NURS-2322)	6
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
LIB ED	Social Science Elective	3
NSG-2421	Health of Families (U of L NURS-2421)	6
NSG-2422	Praxis With Families (U of L NURS-2422)	6
SOC-1160	Introduction to Sociology (U of L SOCI-1000)	3
<b>Credits</b>		<b>18</b>
<b>Year 3</b>		
<b>Term I</b>		
University of Lethbridge		
NURS-3021	Community and Population Health	3
NURS-3022	Praxis in Health Promotion	6
NURS-3100	Leadership and Change	3
HLSC-3450	Applied Statistics for Clinical Practice	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
University of Lethbridge		
NURS-3121	Mental Health and Addictions	3
NURS-3122	Praxis in Mental Health	6
NURS-3200	Praxis and the Digital Age	3
HLSC-3560	History of Nursing	3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Term I</b>		
University of Lethbridge		
NURS-3321	Acute Health Disruptions	3
NURS-3322	Praxis in Acuity	6
NURS-3300	Nursing and Global Health	3
Elective (one from HLSC cross list)		3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
University of Lethbridge		
NURS-4922	Professional Preceptorship	15
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>132</b>

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

## 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 Liberal Education Requirement (LIB ED).
4. A minimum grade of C- is required in all Nursing courses, and in BIO-1160 Anatomy and Physiology I (3 credits) and BIO-1161 Anatomy and Physiology II (3 credits), 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. University of Lethbridge Residence Requirement: A minimum of 20 courses, including a minimum of 12 courses in Nursing and Health Sciences, must be completed at the University of Lethbridge.
6. The time limit for program completion is seven years after completion of the first Nursing course used for credit toward the degree.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many

disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## CAREERS

Upon successful completion of the program, you'll be eligible to write the NCLEX-RN exam to be licensed as a registered nurse. This will open career opportunities for you in a range of health care facilities, including:

- Acute Care (Medical, Surgical, Mental Health, Pediatric, Maternity, etc.)
- Continuing Care (Long Term Care, Supportive Living, etc.)
- Critical Care (ICU, ER, OR)
- Community Health Nursing (Public Health, Primary Health Care, Home Care, etc.)
- Medical Offices
- Rural and Remote Nursing
- Nursing Education
- Nursing Research
- Government Agencies



# Nursing After Degree - Bachelor of

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 that prospective students contact an Academic Advisor with initial inquiries. Call 403.320.3366 or 1.800.572.0103 ext 3366.

Become tomorrow's nursing leader today in the accelerated Bachelor of Nursing – After Degree (BNAD) program. Developed in collaboration with the University of Lethbridge, the After Degree program recognizes and builds on your previous education – regardless of the discipline or field of study. In 24 months, you'll be ready to write the NCLEX-RN exam and begin your career as a Registered Nurse.

Your first two semesters will be completed at Lethbridge College, where you'll be immersed in real-world experience and theory. You'll gain hands-on experience in our labs and in clinical practicums, all while learning the rationale behind what you do. You'll finish off your six consecutive semesters of studies at the university preparing to write the NCLEX-RN.

## Academic Standards

During orientation to the program, students receive a handbook outlining all the program policies. It is very important for students 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:

Nursing Course	Minimum Nursing Course Grade	Minimum Cumulative and Term GPA
All Nursing Courses*	C-	2.50
*Except Nursing 1182	C	2.50

## Academic Disqualification

A student is required to withdraw from the Bachelor of Nursing - After Degree 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 practice 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 practice-based experiences may require a student to leave a practice 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 designate, will

review the case in a timely fashion to determine whether, and under what conditions, the student may return to the practice setting.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](http://lethbridgecollege.ca/programs) (<http://lethbridgecollege.ca/programs/>) and select your program.

Students are expected to travel for practice-based experiences, as required, 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.

## 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 to the BN After Degree must present the following:

- An approved undergraduate degree (a minimum of 30 or more courses (90.0 credit hours) from a recognized degree-granting institution)
- Human Anatomy and Physiology, 6.0 credit hours (two term courses)
- Statistics, 3.0 credit hours (one term course)
- Fine Arts or Humanities courses, 3.0 credit hours (one term course)
- Social science courses, 6.0 credit hours (two term courses)
- Proof of Spoken English Language Proficiency and English Language Proficiency

Keep in mind that Human Anatomy and Physiology and Statistics must be completed with 10 years preceding the term of admission. *(Waivers will not be permitted if the ten year limit has passed or if courses taken are less than the required credit weight; these courses will need to be retaken.)*

Admission to this program is competitive, with an admission average for the Fall 2022 intake being calculated using the grades received in Anatomy/Physiology, Statistics and the term containing the most recent 17 university level subjects.

**Note:** Mid-point grades must be submitted for courses currently in progress.

## CURRICULUM

Course	Title	Credits
<b>Term I</b>		
NSG-1181	Nursing Concepts: Individuals and Families	6
NSG-1182	Introduction to Nursing: Assessment and Practice	6
NSG 3360	Nursing Research (U of L)	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
NSG-2268	Disruptions in Health I	3
NSG-2269	Rural Nursing Practice	6
NSG-2290	Pharmacology and Applied Therapeutics	3
<b>Credits</b>		<b>12</b>

**Term III**

University of Lethbridge

NURS 2254	Maternity and Pediatric Nursing	3
NURS 2293	Maternity and Pediatric Nursing Practice	5
NURS 3125	Mental Health Nursing	3
NURS 4511	Mental Health Nursing Practice	5

**Credits 16****Term IV**

University of Lethbridge

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

**Credits 12****Term V**

University of Lethbridge

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

**Credits 12****Term VI**

University of Lethbridge

NURS 4750	Senior Preceptorship	15
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**Credits 15****Total Credits 82**

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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## CAREERS

Upon successful completion of the program, you'll be eligible to write the NCLEX-RN exam to be licensed as a registered nurse. This will open career opportunities for you in a range of health care facilities, including:

- Acute Care (Medical, Surgical, Mental Health, Pediatric, Maternity, etc.)
- Continuing Care (Long Term Care, Supportive Living, etc.)
- Critical Care (ICU, ER, OR)
- Community Health Nursing (Public Health, Primary Health Care, Home Care, etc.)
- Medical Offices
- Rural and Remote Nursing
- Nursing Education
- Nursing Research
- Government Agencies

## General Requirements

1. Required to complete all courses through Lethbridge College and the University of Lethbridge.
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.
3. A minimum grade of C- is required in all Nursing courses, except NSG-1182, where a minimum grade of C is required. Any student who does not meet the minimum grade requirement is required to repeat the course and achieve a higher grade before being allowed to proceed in the program.
4. The time limit for program completion is six years after completion of the first Nursing course used for credit toward the degree.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

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

## Parts Technician Apprenticeship

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

If you like staying organized, developing expertise, working with people and participating in your customers' successes, the Parts Technician Apprenticeship could be the perfect fit for your future. In the Parts Technician Apprenticeship program, you'll gain the knowledge of parts for the automotive sector, hardware supplies, machinery divisions and more.

Over three years, you'll attend class just one day a week, in the afternoon and evening. This class is currently offered in a hy-flex model. On the job, you'll get hands-on, quality training, developing expertise in identifying and cataloguing parts, preparing statements and submitting bills – earning a paycheque while you do so. In the classroom, we'll train you in the subjects that'll advance your career like human relations and material identification.

**Find the career fit for you in the Parts Technician – WATS program. Apply today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 10-2 and Math 10-3, or a pass mark in all Canadian General Educational Development (GED) tests, or entrance exam.
- English 30-2, Math 30-3, Physics 20 or Chemistry 20 or Science 20 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

Weekly Apprenticeship Training System (WATS) programs involve one day of training at Lethbridge College per week throughout the length of the program. The hyflex design provides flexible attendance requirements, you can attend on-line or in person, which ever suits you best.

### Courses include:

- Material identification and calculations
- Engines and related systems
- Material handling and storage
- Design and planning
- Human relations and industry network
- Electrical, autobody, agriculture and mobile industrial equipment

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/027\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/027_outline.pdf)) for the Parts Technician – WATS Apprenticeship.

New Apprentice Orientation Booklet (<https://lethbridgecollege.ca/document-centre/publications/miscellaneous-publications/apprentice-orientation-booklet/>)

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

When you finish your apprenticeship training, you'll be an expert in parts management. You'll find employment in wholesale groups, retail businesses and warehouse distributors in positions such as:

- Receiving Clerk
- Driver
- Parts Clerk
- Parts Department Manager
- Sales Representative
- Store Manager

<https://tradesecrets.alberta.ca/trades-occupations/profiles/0271/> Parts Technician

# Pathway to English and Academic Culture

Program Office: 403.329.7269 • esl@lethbridgecollege.ca

Do you want to learn English in Canada? Are you looking for a unique Canadian experience? Then the Pathway to English and Academic Culture (PEAC) program is right for you. The PEAC program allows you to learn English in a Languages Canada-approved program while meeting most Lethbridge College post-secondary program language requirements.

The Pathway to English and Academic Culture program will provide you with the opportunity to excel in English while experiencing Canadian academic cultural expectations and immersing yourself in North American life. You'll learn in a friendly and welcoming environment where you can better achieve your educational, career and personal goals.

## 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.lethbridgecollege.ca/elc](http://www.lethbridgecollege.ca/elc) (<https://lethbridgecollege.ca/elc/>)

While completion of the full Pathway to English and Academic Culture is recommended, student **do have the option to take English as a Second Language classes/English for Academic Purposes classes only**. Conditional offer of acceptances to post-secondary programs may not be available to students who are choosing to take less than 15 credits.

	Tuition (per semester)	Fees (per semester)	Books & Supplies (per semester)
Pathway to English & Academic Culture with General Studies Courses Included (15 credits per semester)	\$4,425	\$618	\$120
Pathway to English & Academic Culture with ESL/EAP Courses Only (12 credits per semester)	\$3,240	\$410	\$120

\*all fees are approximate and subject to change

## Graduation

Upon successful completion of all program requirements, students are awarded a Pathway to English and Academic Culture certificate.

## ADMISSIONS

New students are accepted into the English Language programs 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](http://language.ca)) for assessments and therefore can ensure quality placement and accurate assessments throughout each semester.

\* Please note that students must be at least 18 years of age in order to be admitted into the PEAC Program.

## 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.

Upon completion of the Pathway to English and Academic Culture (all EAP classes), you will have met the English Language requirements to apply to one of our hands-on, career focused programs, such as:

- Business Administration
- Computer Information Technology
- Culinary Arts
- Early Childhood Education
- Engineering Technology
- Environmental Science
- University Transfer Programs and much more

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
COL-1130	Achieving College Success	3
ESL-0085	ESL Grammar Level 6	3
ESL-0086	ESL Reading Level 6	3
ESL-0087	ESL Writing Level 6	3
ESL-0088	ESL Communication Level 6	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
ESL-0095	ESL Grammar Level 7	3
ESL-0096	ESL Reading Level 7	3
ESL-0097	ESL Writing Level 7	3
ESL-0098	ESL Communication Level 7	3
LAR-1130	College Reading and Writing	3
<b>Credits</b>		<b>15</b>
<b>Term III</b>		
COM-1162	Interpersonal Relationships and Communications	3
EAP-0096	Academic Writing	6
EAP-0097	Academic Communication	3
EAP-0098	Academic Reading	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>45</b>

# Plumber Apprenticeship

## PLUMBER APPRENTICESHIP

### PLUMBER AND GASFITTER - CLASS B APPRENTICESHIP

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

Whether your interest in the plumbing profession flows from your methodical nature or your desire to work with your hands, the Plumber Apprenticeship program will train you for an essential trade. You'll learn the ins and outs of plumbing and discover how to keep water, waste and gas flowing to or from homes and businesses.

Over four years, you'll spend 80 per cent of your apprenticeship learning on the job while working side by side with skilled plumbers. For the remaining 20 per cent, you'll be in our state-of-the-art trades and technologies facilities expanding your knowledge and using industry-standard equipment to develop new skills.

**A career in an essential trade is waiting – apply to the Plumber Apprenticeship today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies courses recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require eight to 12 weeks of classroom training each year in addition to on-the-job training.

### Courses include:

- Matter, density and relative density
- Residential drainage, waste and venting
- Pressure reducing valves and booster pumps
- Lawn irrigation
- Medical gas piping

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/006\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/006_outline.pdf)) for the Plumber Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

You'll have all the skills you need when you finish your apprenticeship to find employment through:

- Commercial and Residential Construction Companies
- Renovation Companies
- Plumbing Repair Shops
- Self-employment

<https://tradesecrets.alberta.ca/trades-occupations/profiles/0084/> - Gasfitter Class B

<https://tradesecrets.alberta.ca/trades-occupations/profiles/006/> - Plumber

# Plumber Pre-Employment Training

Program Office: 403-320-3411 • tradeslc@lethbridgecollege.ca

## Designed for those who are not yet employed or apprenticed within the trades.

Not an apprentice? Not a problem. Kick-start your career in the trades in our Pre-Employment Plumber program. Specifically designed for those who are not yet employed in the pipe trades, the Pre-Employment Plumber trades training program provides the first year of the Alberta Apprenticeship Common first period Pipe Trades curriculum.

Trades employers are reluctant to hire employees with no experience, but you can enhance your chances in our Pre-Employment Plumber trades training program. Through a mix of theoretical and hands-on training, our Pre-Employment Plumber program prepares you to write the first-year Alberta Apprenticeship Common Pipe Trades exam.

## ADMISSIONS

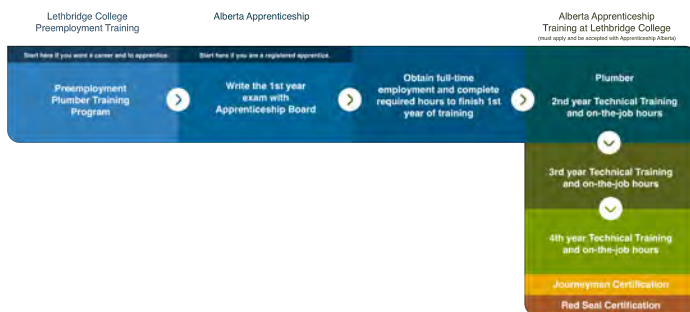
### Academic requirements

- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.
- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies courses recommended.

## CURRICULUM

Upon successful completion of The Pre-Employment Plumbing program, you will:

- be prepared to write the First Period Alberta Apprenticeship Examination.
- be prepared to be employed within the Plumbing industry in Alberta.
- have learned valuable employability skills including cover letter and resume writing, and interview skills.
- obtain a Letter of Recognition.



## CAREERS

When you finish your chosen apprenticeship path, you'll be prepared for such positions as:

- Journeyman Plumber
- Journeyman Pipefitter/Steamfitter
- Journeyman Sprinkler fitter

- Journeyman Gasfitter
- Supervisor
- Estimator
- Business Owner



# Police Cadet Training

Program Office: 403.329.7246 • infojustice@lethbridgecollege.ca

You've made it – you're a newly hired police officer with a police service or law enforcement agency. Before you hit the streets, sharpen your front-line policing skills in the Police Cadet Training program. Formed in collaboration with the core police services of southern Alberta, the Police Cadet Training program delivers up-to-date training.

In the Police Cadet Training program, you'll reinforce crucial skills and knowledge, such as report writing and investigative techniques, while we prepare you to begin your service. Upon completion of the program, your know-how will meet and exceed provincial standards, enhancing your ability to be a vital part of your force and to make a difference in your community.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](https://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Police Cadet Training certificate.

## ADMISSIONS

Flexible – Fall, Winter, or Spring term depending on police agency requirements.

## 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 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

## CURRICULUM

Course	Title	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
<b>Total Credits</b>		<b>34.5</b>

## CAREERS

You'll be ready to hit the streets with your sharp skills once you graduate. You'll be awarded a Credential of Academic Achievement in Police Cadet Training to take into your career as a police officer.

# Powerline Technician Pre-Employment Training

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

## Designed for those who are not yet employed or apprenticed within the trades.

Not an apprentice? Not a problem. Kick-start your career in the trades in our Pre-Employment Powerline Technician program. Designed for those who are not yet employed or apprenticed within the trades, the Pre-Employment Powerline Technician program provides the first year of the Alberta Powerline Technician Apprenticeship curriculum as well as various safety certificates.

Trades employers are reluctant to hire employees with no experience, but you can enhance your chances in our Pre-Employment Powerline Technician program. Our program provides a mix of theoretical and hands-on training in the utility electrical field related to overhead distribution installations. You will cover all the material in the first-year Powerline Technician Apprenticeship curriculum. You will receive hands on training including: climbing, use of trade specific tools, RBD setup, groundman duties and basic overhead line construction techniques. Additional safety training is also provided. Part of your training includes practical experience in the field.

## ADMISSION

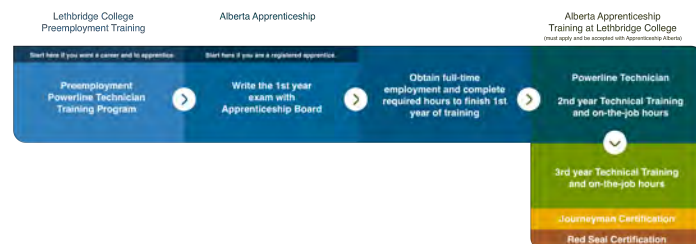
English 20-2, Math 20-3, Science 10, or Equivalents, or pass Apprenticeship Entrance Exam.

A Valid driver's license (class 3 is recommended).

## CURRICULUM

Upon successful completion of The Pre-Employment Powerline Technician program, you will:

- be able to demonstrate skills and knowledge related to the powerline industry acquired through hands-on training
- be prepared to write the First Year Apprenticeship examination.
- be prepared to be employed within the powerline technician industry in Alberta.
- have learned valuable employability skills.
- obtain a Letter of Completion.



- Maintenance of existing powerlines and service areas.
- Local, provincial, and national powerline industry service providers.

For more information please visit the Alberta Apprenticeship and Industry Training website at;

<https://tradesecrets.alberta.ca/trades-occupations/profiles/021/>  
(<https://tradesecrets.alberta.ca/trades-occupations/profiles/021/>)  
Powerline Technician

## CAREERS

As a journeyperson in the Powerline industry, you will have opportunities in;

- Overhead distribution installation.
- Underground distribution installation.

## Practical Nurse

Program Office: 403.320.3211 • [practicalnurse@lethbridgecollege.ca](mailto:practicalnurse@lethbridgecollege.ca)  
(<http://practicalnurse@lethbridgecollege.ca>)  
Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

Bring your compassion and desire to care for others into a vital role as a practical nurse. Our Practical Nurse program offers in-depth, quality academic programming and innovative practicums to provide you with the skills and knowledge necessary to begin your career working to the full scope of practice as identified by the College of Licensed Practical Nurses of Alberta.

In the classroom, you'll learn nursing theory from experienced instructors and receive hands-on training during simulated practice experiences. You'll learn to use the critical thinking skills necessary to ensure the care you provide to the public is safe, competent and ethical. And you'll get real-world experience during work-integrated learning placements that prepare you to enter the nursing profession.

## 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.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

To be eligible to graduate, students must attain a minimum grade point average (GPA) of 1.7 in all Arts and Science courses and a minimum grade point average of 2.3 in all PNG (nursing) courses.

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 Practical Nurse diploma.

Graduates are eligible for licensure through the College of Licensed Practical Nurses of Alberta upon payment of a fee and successfully passing the Canadian Practical Nursing Registration Exam

## ADMISSIONS

New students are accepted into this program for the Fall (September) term only.

## General Admissions 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 Nurse 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1156	Wellness and Health Issues	3
BIO-1160	Anatomy and Physiology I	3
COM-1162	Interpersonal Relationships and Communications	3
ENG-1150	Composition	3
PNG-1145	Health and the Practical Nurse (Theory I)	3
PNG-1146	Basic Nursing Skills (PN Practice I)	3

PNG-1147	Practical Nursing Clinical I	1.5
<b>Credits</b>		<b>19.5</b>
<b>Term II</b>		
BIO-1161	Anatomy and Physiology II	3
PNG-1148	Health and Individuals (PN Theory II)	3
PNG-1149	Intermediate Nursing Skills (Practice II)	3
PNG-1154	Practical Nursing Clinical II	3
PNG-1159	Pharmacology	3
PNG-1167	Health Assessment	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
PNG-2251	Health and Illness (PN Theory III)	3
PNG-2252	Senior Nursing Skills (PN Practice III)	3
PNG-2253	Practical Nursing Clinical III	3
PNG-2254	Mental Health Nursing	3
PNG-2256	Pathophysiology	3
PSY-1170	Human Development Across the Lifespan	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
PNG-2255	Professional Growth	3
PNG-2257	Health and Families (PN Theory IV)	3
PNG-2259	Practical Nursing Clinical IV	6
PNG-2260	Full Scope of Practice Skills (Pr. IV)	3
PNG-2267	Community Nursing	3
SOC-1167	Sociology of Aging	3
<b>Credits</b>		<b>21</b>
<b>Term III</b>		
PNG-2277	Comprehensive Practicum	6
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>82.5</b>

## 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 (3 credits) .

## 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:

Course	Title	Credits
BIO-1156	Wellness and Health Issues	3
BIO-1160	Anatomy and Physiology I	3
BIO-1161	Anatomy and Physiology II	3
COM-1162	Interpersonal Relationships and Communications	3
ENG-1150	Composition	3
PSY-1170	Human Development Across the Lifespan	3
SOC-1167	Sociology of Aging	3

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions

under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### Thompson Rivers University

Graduates of Lethbridge College's Practical Nurse diploma program are eligible to receive up to 57 transfer credits towards Thompson Rivers University's Bachelor of Health Science or up to 60 transfer credits towards Thompson Rivers University's Bachelor of General Studies.

### University of Lethbridge (*pending renewal*)

Graduates of Lethbridge College's Practical Nurse diploma program with a minimum 3.00 GPA are eligible to be admitted into the University of Lethbridge's Post-Diploma Bachelor of Health Sciences program for completion of their Bachelor of Health Sciences degree. Once admitted, students will be third-year degree level students at the University of Lethbridge in its Faculty of Health Sciences in all respects.

## CAREERS

Upon successful completion of your diploma and passing the Canadian Practical Nursing Registration 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 health care team and play a primary role in providing safe, competent and ethical care to the public.

# Practical Nurse Refresher

Program Office: 403.320.3211 • [practicalnurse@lethbridgecollege.ca](mailto:practicalnurse@lethbridgecollege.ca)

Centre for Health and Wellness Placement Office: 403.320.3202 Ext 5380

Ready to return to the work you loved? Lethbridge College's Practical Nurse Refresher program provides you 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.

This program is designed to equip you with the knowledge, skills and attitudes to support meeting the requirements necessary for practice as outlined in the current Licensed Practical Nurse Profession Regulation, all applicable Standards of Practice for Licensed Practical Nurses in Alberta, and the current Competency Profile for Licensed Practical Nurses of Alberta. You will have the opportunity to acquire the analytical, conceptual, and critical thinking skills necessary to care for others.

## Graduation

To be eligible to graduate, students must attain a minimum term grade point average (GPA) of 2.3 in all PNR courses.

All requirements must be met within five years of the first PNR course used towards the certificate.

Upon successful completion of all program requirements, students are awarded a Practical Nurse Refresher certificate. Graduates are eligible for licensure through the College of Licensed Practical Nurses of Alberta.

## ADMISSIONS

New students are accepted into this program for the Fall (September) term and the Winter term with a March start date.

## Academic Requirements

Applicants to this program must also satisfy the following specific requirements:

- Letter of Eligibility provided by the College of Licensed Practical Nurses of Alberta

## English Language Requirements for Practical Nurse Refresher 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
PNR-2250	Acute and Chronic Nursing Care	3
PNR-2251	Nursing Care in Specialty Settings	3
PNR-2252	Nursing Foundations and Professionalism	3
PNR-2253	Nursing Practice - Theory	3
PNR-2254	Nursing Refresher Skills	3
<b>Credits</b>		<b>15</b>

### Term II

PNR-2270	Comprehensive Practicum	6
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>21</b>

### General Requirements

All four PNR theory courses must be successfully completed to advance to the PNR lab course.

All four PNR theory courses and the PNR lab course must be successfully completed to advance to PNR final practicum course.

To remain in good standing, students must attain a minimum term grade point average (GPA of 2.3) in all PNR courses.

A final minimum grade of C is required in all PNR courses to pass the course. A student who receives a grade of C- or lower must repeat the course.

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 PNR courses, must meet with the Program Chair to discuss a progress plan.

### 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 programs' policies and expectations. It is very important for learners to review and understand these requirements.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge



College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## CAREERS

Upon successful completion of your certificate and registration with College of Licensed Practical Nurses of Alberta, 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 health care team and play a primary role in providing safe, competent and ethical care to the public.

# Pre-Employment Trades Training

Trades employers are reluctant to hire employees with no experience, but you can enhance your chances in one of our pre-employment trades training programs. Designed for those who are not yet employed or apprenticed within the trades, these training programs provide the first year of the Alberta apprenticeship curriculum as well as various safety certificates. Successful completion of pre-employment training prepares you to write the first-year apprenticeship exam.

## Electrician

Give yourself an advantage in the electrical trade. Through a mix of theoretical and hands-on training, our pre-employment electrician program will prepare you to write the first-year Alberta Apprenticeship Electrical exam.

Pre-Employment Electrician Link. (p. 67)

### Course Description

The Pre-Employment Electrician program will enhance your career opportunities in the electrical trade. You will receive extensive theoretical and hands-on training related to residential and commercial electrical installation. The Pre-employment Electrician program covers all material in The First Year Alberta Apprenticeship Electrical curriculum and employability skills.

### Outcomes

Upon successful completion of The Pre-Employment Electrician program, you will:

- be prepared to write the First Period Alberta Apprenticeship Examination.
- be prepared to be employed within the Electrical industry in Alberta.
- have learned valuable employability and safety skills.
- obtain a Letter of Recognition.

### Pre-requisites

English 20-2, Math 20-3, Science 10, or pass Apprenticeship Entrance Exam. Please contact Industrial and Technical Training at (403) 320-3202 ext. 5770 prior to registering to ensure all pre-requisites have been met.

### Notes

Course fees do not include textbooks (approx. \$350.00), apprenticeship exam fee (\$150.00), or other materials. Students in pre-employment programs can now apply for loans and grants through Student Aid Alberta.

## Plumber

Whether your interest in the plumbing profession flows from your methodical nature or your desire to work with your hands, the Plumber Apprenticeship program will train you for an essential trade. You'll learn the ins and outs of plumbing and discover how to keep water, waste and gas flowing to or from homes and businesses.

### Outcomes

- be prepared to write the First Period Alberta Apprenticeship Examination.
- be prepared to be employed within the Plumbing, Pipefitting, Gasfitting, or Sprinkler-fitting industries in Alberta.

- have learned valuable employability and safety skills.
- obtain a Letter of Recognition.

### Pre-requisites

- English 30-2, Math 30-3, Physics 30 or Chemistry 30 or Science 30 and related career and technology studies courses recommended.
- Successful completion of English 20-2, Math 20-3 and Science 10, or entrance exam.

### Notes

- Course fees do not include textbooks (approx. \$125.00), apprenticeship exam fee (\$150.00), or other materials.
- The Pre-Employment Plumbing Program prepares and allows students to write the First Year Gasfitter/Plumber Provincial Apprenticeship Exam. The Pre-Employment Plumbing Program covers all material in The First Year Alberta Gasfitter/Plumber (Pipe Trades) Apprenticeship curriculum.
- You are responsible for providing all of your own Personal Protective Equipment (PPE) such as CSA Approved steel-toed work boots, safety glasses, coveralls, etc.
- Students in pre-employment programs can now apply for loans and grants through Student Aid Alberta.

Pre-Employment Plumber Link (p. 107)

## Powerline Technician

Powerline technicians play a vital role in ensuring the reliable delivery of electricity to homes and businesses across the country. Our pre-employment program provides theoretical and hands-on training in the utility electrical field related to overhead and underground distribution installations. Over twelve weeks, you'll cover all of the material in the first-year Powerline Technician Apprenticeship exam curriculum and receive additional safety training and employability skills.

Pre-Employment Powerline Technician Link (p. 110)

### Course Description

The Powerline Technician/Power System Electrician Program is a twelve-week extensive hands-on and theoretical training program in the utility electrical field related to overhead and underground distribution installations.

Skilled tradespeople are in high demand in Canada. As a Powerline Technician/Power System Electrician you play a vital role in ensuring the reliable delivery of electricity to homes and businesses across the country. It is an essential and valued occupation with excellent starting wages and an impressive list of future employers. The Pre-Employment Powerline Technician program covers all material in the 1st year Powerline Technician Apprenticeship Exam curriculum, plus additional safety training, and employability skills.

### Outcomes

Upon successful completion of The Pre-Employment Powerline Technician Installer program, you will:

- be prepared to write the First Year Apprenticeship examination.
- be prepared to be employed within the powerline technician industry in Alberta.
- have obtained a variety of safety certificates (Standard 1st Aid/CPR Level A, Confined Space, WHMIS, Fire Safety, Fall Protection, Ground Disturbance, CSTS).

- have learned valuable employability skills including cover letter and resume writing, and interview skills.
- obtain a Letter of Recognition.

### **Prerequisites**

High School Diploma, Applied Math 20, Valid driver's license (class 3 is preferred and required to gain employment in the field).  
Please contact Industrial and Technical Training at (403)-330-7083 prior to registering to ensure all pre-requisites have been met.

### **Notes**

Participants are required to submit a resume and go through an interview process

Course fees do not include textbooks (approx. \$125.00), apprenticeship exam fee (\$150.00 theory, \$145.00 practical), or other materials.

Students in pre-employment programs can now apply for loans and grants through Student Aid Alberta.

This program takes place at the Agriculture & Trades Training Facility (former Animal Husbandry Building) 211034- Hwy 512 on the jail road.

## **Welder**

As a green collar career choice, the welding trade is flourishing. In our pre-employment welder training program, you'll prepare to write the first-year Alberta Apprenticeship Welding theory and practical exams.

Pre-Employment Welder Link (p. 128)

### **Course Description**

Featuring outstanding salary options, positive future outlook with the pipeline industry and now endless promise as a 'Green Collar' career choice, welding has never been a more secure or flourishing trade.

The Pre-Employment Welder Program prepares and allows students to write the First Year Welding Apprenticeship theory and practical exams.

The Pre-Employment Welding Program covers all material in The First Year Alberta Welding Apprenticeship curriculum.

### **Outcomes**

Upon successful completion of The Pre-Employment Welding/Pipeline Assistant Program, you will:

- be prepared to write the First Year Welding Apprenticeship theory and practical examinations.
- be prepared to be employed within several industries in Alberta who employ welders.
- obtain a Letter of Recognition.

### **Prerequisites**

English 10-2 and Math 10-3 or Pass mark in all 5 Canadian G.E.D. Tests or pass Apprenticeship Entrance Exam. Please contact Industrial and Technical Training at (403) 320-3202 ext. 5770 prior to registering to ensure all pre-requisites have been met.

### **Notes**

Course fees do not include textbooks (approx. \$125.00), apprenticeship exam fee (\$150.00 theory, \$145.00 practical), or other materials. You are responsible for your own CSA Approved work boots, coveralls, safety glasses, welding helmet (preferably Auto-Darkening), welding gloves, and vice-grip pliers.

Students in pre-employment programs can now apply for loans and grants through Student Aid Alberta.

# Renewable Resource Management

Program Office: 403.382.6991 • [envisci@lethbridgecollege.ca](mailto:envisci@lethbridgecollege.ca)

Have you always respected the environment and the fish and wildlife that call it home? Then a career preserving their habitat might be right for you – and it starts in the Renewable Resource Management program. This intensive two-year diploma program is focused on biology and primarily deals with fish and wildlife.

Textbook theory will come to life as you trek out into fields, forests, lakes and rivers to study animals and their environment, learning how to preserve their habitat for generations to come. You'll be fully engaged in small classes taught by enthusiastic instructors who are recognized experts in the field.

## Supplies for Field Studies

Students on field studies are expected to provide their own equipment and supplies. This may include:

- 30 cm metric steel ruler
- adequate clothing for cold/wet weather
- backpack for gear
- binoculars
- digital camera (standard feature)
- field equipment vest (recommended)
- food
- hiking boots
- orienteering compass
- sunscreen
- safety glasses
- water bottle
- warm sleeping bag
- work gloves
- “write-in-the-rain” treated field notebook/surveyors book

Equipment and supplies may not be required in all courses or terms. Please consult the course outlines for specific equipment required before purchasing. 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:

- 16x hand lens
- dissection kit
- lab coat
- metric triangular scale with 1:1, 1:2, 1:5, 1:10, 1:20 and 1:50 graduations
- safety glasses
- “write-in-the-rain” field notebook/surveyors book

Available from sporting, hardware and office supply stores:

- 4 GB or higher USB memory stick
- 12 or more coloured pencils (pencil crayons)
- 30 cm metric steel ruler

- binoculars (8X40 or 10X50 magnification)
- chest waders (rubber soled)
- clipboard
- Nexus Type 115 or Silva Ranger compass (with declination adjustment screw)
- scientific calculator (\$15-\$30 range)

For additional information concerning lab or field equipment, contact the lab coordinator at 403.320.3202 ext. 5594.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

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

## Graduation

Upon successful completion of all program requirements, students are awarded a Renewable Resource Management diploma.

## ADMISSIONS

New students are accepted into the Renewable Resource Management two-year diploma program for the Fall term (September) only.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1167	Botany <sup>1</sup>	3

BIO-1168	Zoology <sup>1</sup>	3
RRM-1197	Spatial Information Techniques <sup>1</sup>	3
RRM-2252	Water Resources	3
STS-1155	Descriptive Statistics	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
BIO-1170	Plant Systematics <sup>1</sup>	3
BIO-1172	Ecology <sup>1</sup>	3
ENG-1150	Composition	3
GEO-1166	Physical Geology	3
RRM-2253	Soil Resources	3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Term I</b>		
LAW-1150	Introduction to Environmental Law	3
RRM-2256	Rangeland Management <sup>1</sup>	3
RRM-2258	Principles of Wildlife Biology <sup>1</sup>	3
RRM-2259	Principles of Fishery Science <sup>1</sup>	3
RRM-2298	Conservation Biology	3
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
GEO-1165	Geographic Information Systems	3
RRM-2264	Forest Management	3
RRM-2291	Wildlife Habitat Management <sup>1</sup>	3
RRM-2293	Fish Habitat Management <sup>1</sup>	3
RRM-2299	Fire Management <sup>1</sup>	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> 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.

## 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 Lethbridge College's Renewable Resource Management diploma program are eligible to receive 30 to 60 credits (dependent on the university program) towards a number of post-diploma bachelor's degrees in Commerce, Management, Human Resources/Labour Relations, Computer and Information Systems, and Science at Athabasca University. To explore options, please visit [www.athabascau.ca](http://www.athabascau.ca) (<https://www.athabascau.ca/>)

## Griffith University, Australia

Graduates of Lethbridge College's Renewable Resource Management diploma program are eligible to receive transfer credit towards the completion of a Bachelor of Environmental Science at Griffith University, in Australia. For more information, please visit <https://www.griffith.edu.au/credit> (<https://www.griffith.edu.au/credit/>)

## Lethbridge College

Graduates of the Renewable Resource Management diploma at Lethbridge College may be eligible for up to 60 credits towards a Bachelor of Ecosystem Management or a Bachelor of Applied Science in Conservation Enforcement at Lethbridge College. Details regarding these programs can be found in the Academic Calendar or on the Lethbridge College website (<https://lethbridgecollege.ca/>).

## Northern Alberta Institute of Technology (NAIT)

Graduates of Lethbridge College's Renewable Resource Management diploma program with a minimum GPA of 2.7, or a B- grade, on standard grading scales will be conditionally accepted into the BTech (Bachelor of Technology) degree program. Applicants for transfer of credit 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 Lethbridge College's Renewable Resource Management diploma program are eligible for full block transfer into the Bachelor of Science in Environmental Practice or the Bachelor of Arts in Environmental Practice at Royal Roads University. Graduates may also receive full block transfer to the Bachelor of Science in Environmental Science, with the completion of two additional university-level math courses (calculus or linear algebra preferred) and two additional university-level chemistry courses on arrival.

## University of Alberta

Graduates of Lethbridge College's Renewable Resource Management diploma program are eligible to receive up to 60 credits towards a Bachelor of Science (Environmental and Conservation Sciences), Land Reclamation major at the University of Alberta. In order to receive the

total allowable credits, students must present all diploma program requirements.

## University of Lethbridge

Graduates of Lethbridge College's Renewable Resource Management diploma program with a minimum 2.75 GPA are eligible for admission into the University of Lethbridge's Post-Diploma Bachelor of Science (Environmental Science) program. Admitted students will be third-year degree level students in the university's Faculty of Arts and Science in all respects. For more information, please see an academic advisor and visit [www.uleth.ca](http://www.uleth.ca) (<https://www.uleth.ca>)

## University of Regina

Lethbridge College's Renewable Resource Management diploma graduates are eligible to receive up to 60 credits towards the Bachelor of Science (Environmental Biology) at the University of Regina. Students must have a minimum graduating average 60% and a passing grade in Pre-Calculus 30 or equivalent. For more information, please visit <http://urconnected.uregina.ca/> (p. 3)

## CAREERS

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).



# Therapeutic Recreation Gerontology

Program Office: 403.320.3310 • [trg@lethbridgecollege.ca](mailto:trg@lethbridgecollege.ca)

Centre for Health and Wellness Placement Office: 403.320.3202 Ext. 5380

Build your assessment skills and develop the ability to plan therapeutic programs for people with an illness or disabling condition. With a diploma in Therapeutic Recreation-Gerontology (TRG), you promote the use of recreation and leisure as treatment modalities to support purposeful and meaningful interventions. This two-year program combines foundational knowledge with hands-on practice to provide you with the fundamentals of therapeutic recreation with a specialization in gerontology.

The TRG program teaches you how to use leisure and recreation to facilitate optimal health and wellness for individuals with illnesses or disabling conditions. Through theory classes, skills labs and practice in the field, you will learn to assess, plan, implement, evaluate and deliver therapeutic recreation services including functional intervention, leisure education and recreation participation.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](http://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Therapeutic Recreation Gerontology diploma.

## ADMISSIONS

New students for both the campus based and on-line learning cohorts are admitted into the Therapeutic Recreation Gerontology program in the Fall (September) term.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
BIO-1152	Physiology of Aging	3
COM-1162	Interpersonal Relationships and Communications	3
ENG-1150	Composition	3
PSY-1177	Psychology of Aging	3
TRG-1150	Introduction to Therapeutic Recreation	3
TRG-1164	Leadership Theory	3
<b>Credits</b>		<b>18</b>
<b>Term II</b>		
COM-1170	Helping Relationships	3
PSY-1170	Human Development Across the Lifespan	3
SOC-1167	Sociology of Aging	3
TRG-1160	Therapeutic Recreation Program Planning I	3
TRG-1199	Practicum I	3
TRG-2263	Aging Disorders and Disabilities	3
<b>Credits</b>		<b>18</b>
<b>Year 2</b>		
<b>Term I</b>		
TRG-2253	Therapeutic Recreation Assessment	3
TRG-2256	Therapeutic Recreation Intervention	3
TRG-2260	Therapeutic Recreation Program Planning II	3
TRG-2268	Therapeutic Recreation Programs	6
<b>Credits</b>		<b>15</b>
<b>Term II</b>		
PSY-2260	Abnormal Psychology	3
TRG-2259	Therapeutic Recreation Issues and Trends	3
TRG-2264	Community Resources	3
TRG-2270	Administrative Practices Therapeutic Recreation	3
TRG-2299	Advanced Practicum II	6
<b>Credits</b>		<b>18</b>
<b>Total Credits</b>		<b>69</b>

Please refer to the online Academic Timetable for course availability.

**Important Note(s):**

Online Learning students are responsible for any fees for service by an off-site exam proctor.

All "TRG" specific courses within the Therapeutic Recreation Gerontology diploma MUST be completed within 6 years of the student being accepted into the program. However, the support courses (i.e. SOC, PSY) have a 10 year completion date.

Students must complete the two practicums on a full-time basis. Due to the limited availability of practicum sites, students may be required to relocate from their home community to complete the practicum placements.

Online learning students must 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 Practicum I (3 credits) or TRG-2299 Advanced Practicum II (6 credits) must register prior to September 1st for the winter term placement and January 1st for a spring/summer term placement.

It is not recommended that Online Learning students register in more than 2 theory courses and practicum 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) insurance coverage when participating in practicums outside of Alberta.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with

Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## TRANSFERS

### Athabasca University

Graduates of Lethbridge College's Therapeutic Recreation Gerontology diploma program are eligible to receive 60 credits towards Athabasca University's 120-credit Bachelor of Professional Arts in Human Services program or 30 credits towards a number of Athabasca University's post-diploma bachelor's degrees in Human Resources/Labour Relations, Management, and Commerce. To explore options, please visit <https://www.athabascau.ca/>

### Griffith University

Graduates of Lethbridge College's Therapeutic Recreation Gerontology diploma program are eligible to receive transfer credit towards the completion of a Bachelor of Human Services at Griffith University, in Australia. For more information, please visit <https://www.griffith.edu.au/credit> (<https://www.griffith.edu.au/credit/>)

### Thompson Rivers University

Graduates of Lethbridge College's Therapeutic Recreation Gerontology diploma program are eligible to receive up to 57 transfer credits towards Thompson Rivers University's Bachelor of Health Science or up to 60 transfer credits towards Thompson Rivers University's Bachelor of General Studies.

### University of Calgary

Graduates of Lethbridge College's Therapeutic Recreation Gerontology diploma program are eligible to receive 60 credits towards the University of Calgary's 120-credit Bachelor of Community Rehabilitation program.

### University of Lethbridge

Graduates of Lethbridge College's Therapeutic Recreation Gerontology diploma program with a minimum 2.00 GPA are eligible to apply to the University of Lethbridge's Bachelor of Therapeutic Recreation program. Enrollment in the degree program is limited and a higher GPA may be required to meet competitive admission requirements. Once admitted, students will be third-year degree level students at the University of Lethbridge in its Faculty of Health Sciences in all respects. For more

information, please see an academic advisor and visit [www.uleth.ca](http://www.uleth.ca)  
(<http://www.uleth.ca/>)

## CAREERS

Your diploma in Therapeutic Recreation Gerontology will prepare you to work in many settings, including:

- Community-based programs
- Group homes
- Hospitals
- Lodges
- Long term care
- Mental health programs
- Rehabilitation programs
- Seniors day programs
- Senior centers
- Supportive living

# Unit Clerk

Program Office: 403.320.3310 • unitclerk@lethbridgecollege.ca  
 Centre for Health and Wellness Work-Integrated Learning Office:  
 403.320.3202 Ext. 5380

A career in health care is just a few months away in our Unit Clerk Training program. Our intensive certificate program is designed to give you a practical introduction to health care administration and a first-hand experience performing reception and administrative duties to keep health care facilities running efficiently.

In the classroom, you'll learn everything from medical terminology to health care records management. At the end of your studies, you'll complete a work-integrated learning experience acquiring vital hands-on skills. After just 22 weeks, you'll have the knowledge and confidence to be essential to the flow of information in health care facilities.

## Your Investment

Program fees will vary. To view fee information for your program, go to [www.lethbridgecollege.ca/programs](https://www.lethbridgecollege.ca/programs) (<https://www.lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Unit Clerk certificate.

## ADMISSIONS

New students are accepted into the Unit Clerk program for the Fall (September) term.

## General Admissions 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
COM-1162	Interpersonal Relationships and Communications	3
CPU-1151	Introduction to Computers	1.5
CSP-1150	Medical Terminology/Anatomy and Physiology	3
ENG-1159	Writing for the Workplace	3
HTH-1121	Health Administration	1.5
HTH-1125	Patients' Records/Transcribing Orders	3
HTH-1142	Medical Order Entry	3
<b>Credits</b>		<b>18</b>

### Term II

HTH-1143	Unit Clerk Practicum	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>21</b>

### Important Notes:

1. HTH-1143 Unit Clerk Practicum (3 credits) is a 95 hour, full-time, face-to-face work-integrated learning course offered at various health care facilities within Lethbridge and surrounding rural areas. Staggered practicum start dates are necessary to ensure placement sites.

## PRACTICUM

### Work-Integrated Learning (WIL) Pre-Placement Requirements

This program has a required Work-Integrated Learning Pre-Placement Requirements (WIL) component. The College dictates the legal terms and conditions governing the WIL.

Students must meet and maintain certain requirements to participate in the WIL 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.).

Workers' Compensation Board (WCB) coverage - WIL 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 WIL placement outside of Alberta). These students are advised to contact the program prior to application.

Students with disabilities who may require accommodations must schedule an appointment with Accessibility Services at Lethbridge College preferably upon acceptance to the program and no later than the Add/Drop deadline to identify potential impacts of their disabilities in the WIL setting. As part of this process, it may be necessary to collaborate with WIL supervisors to determine appropriate accommodations that do not compromise the health and safety of clients, essential placement requirements, or mandatory licensing processes. Failure to consult with Accessibility Services in a timely fashion may compromise the student's WIL placement and opportunities for success in the WIL setting.

In order to participate in a WIL, a student may be required to complete a Police Information Check or other type of Security Clearance to the satisfaction of Lethbridge College and the WIL organization. Completion of a WIL does not guarantee employment with a WIL organization. Many disciplines are provincially or otherwise regulated (e.g. health professions under Alberta's Health Professions Act); such regulation is beyond Lethbridge College's control. Completion of a WIL and graduation from a certain program do not guarantee one's licensure or admission into a regulatory body. Prospective students are encouraged to consult with a representative of the relevant regulatory body if they have concerns.

WIL sites may include Lethbridge, surrounding rural communities, and may extend beyond these boundaries depending on WIL site availability and approvals. WIL'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.

## CAREERS

Your certificate for Unit Clerk will prepare you for positions in a variety of medical environments, including:

- Doctor Offices
- Health Care Agencies
- Hospice Facilities
- Hospitals
- Long-Term Care Facilities
- Medical Clinics
- Private Health Care Providers
- Respite Facilities

# Virtual and Augmented Reality

Program Office: 403.320.3468 • [virtualreality@lethbridgecollege.ca](mailto:virtualreality@lethbridgecollege.ca)

Create your own success story with the one-year Virtual and Augmented Reality program, learning skills you can apply in any sector that values design and the creation of immersive environments. With a balance of technical and entrepreneurial skill-building, the Virtual Reality program focuses on four areas of study: production fundamentals, experiential design, spatial media, and industry application. Our Virtual and Augmented Reality Certificate is offered both through fully online and in-person delivery methods.

In this one-year program, you'll enhance your technical expertise and convert your imaginative ideas into exciting and relevant virtual and augmented reality (VR/AR) content. You'll learn the fundamentals of extended reality design and be exposed to the latest tools including 3D asset creation, spatial media production, sound design, real-time game engines and coding.

## Other Required Supplies

Students will be required to purchase the following:

- a Head Mounted Display (HMD); students should check with instructors for specific HMD requirements
- an external USB 3.0 SSD hard disk drive
- a gaming PC

Contact the department for more specific equipment information.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs/](https://lethbridgecollege.ca/programs/) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Graduation

Upon successful completion of all program requirements, students are awarded a Virtual and Augmented Reality certificate.

## ADMISSIONS

New students are accepted into the Virtual and Augmented Reality certificate program for the Fall (September) term.

## General Admissions Requirements

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

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
VXR-1150	Introduction to Immersive Technology	3
VXR-1160	Art and Design for Extended Reality	3
VXR-1170	Fundamentals of Coding	3
VXR-1180	Spatial Media Production	3
VXR-1190	Immersive Audio Design	3
<b>Credits</b>		<b>15</b>

### Term II

BUS-1177	Entrepreneurship	3
VXR-1161	Asset Production for XR	3
VXR-1165	Advanced Design for VXR	3
VXR-1171	Coding for Immersive Experiences	3
VXR-1181	Advanced Media Capture	3
<b>Credits</b>		<b>15</b>

### Term III

VXR-1195	XR Industry Capstone	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>33</b>

## Practicum Experience Requirements

There is a required practicum component to this program. Lethbridge College dictates the legal terms and conditions governing the practicum experience.

## CAREERS

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:

- Interactive Media Developer
- Junior Software Developer
- Virtual and Augmented Reality Content Creator
- Virtual and Augmented Reality Developer
- Virtual and Augmented Reality Specialist



# Welder Apprenticeship

## WELDER APPRENTICESHIP

### WELDER-WIRE PROCESS OPERATOR APPRENTICESHIP

Program Office: 403-320-3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

If you enjoy building and have the patience to concentrate on detailed work, fuse your interests together and train for an in-demand career in the Welder Apprenticeship program. In this apprenticeship program, you'll build a solid career that can take you to a variety of industries and a variety of environments.

From outdoor construction sites to indoor jobs in production and repair shops, the Welder Apprenticeship prepares you for it all, splitting your time between the job and the classroom. On the job, you'll work with a qualified welder, honing your craft on actual projects. In the classroom, you'll develop essential theory and knowledge and gain hands-on skills using the latest industry equipment in our state-of-the-art shops.

**Train for an in-demand career – apply to the Welder Apprenticeship today!**

## ADMISSIONS

### Academic requirements

- Successful completion of English 10-2 and Math 10-3, or a pass mark in all Canadian General Educational Development (GED) tests, or entrance exam.
- English 30-2, Math 30-3, Physics 20 or Chemistry 20 or Science 20 and related career and technology studies recommended.

**Please note:** You must be a registered apprentice to apply for this program. Information on how to become a registered apprentice is available on the Alberta Government's website (<https://alis.alberta.ca/explore-education-and-training/learn-about-apprenticeship/apprenticeship-in-alberta/>).

Additional information on apprenticeship and industry training is available on Alberta's Tradesecrets website (<https://tradesecrets.alberta.ca/>).

## Admission

You can apply for apprenticeship and industry training through MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/applying-for-ait-programs-and-services-online/>).

## Alberta Apprenticeship and Industry Training Board

Provincial Building, Room 280  
200 - 5th Avenue South  
Lethbridge AB T1J 4C7

Telephone: 1-800-248-4823  
Outside of North America: 1-403-476-9757  
Fax: 403-381-5795

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

## CURRICULUM

Apprenticeship programs require 8 to 12 weeks of classroom training each year in addition to on-the-job training.

### Courses include:

- Trade mathematics
- Safety and tools
- Pattern development and drawing interpretation
- Trade science
- GMAW (Gas Metal Arc Welding), FCAW (Flux-Cored Arc Welding), MCAW (Metal Cored Arc Welding), SMAW (Shielded Metal Arc Welding) GTAW (Gas Tungsten Arc Welding).
- Oxy-acetylene cutting and plasma cutting

View the full course outline ([https://tradesecrets.alberta.ca/SOURCES/PDFS/course\\_outlines/012\\_outline.pdf](https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/012_outline.pdf)) for the Welder Apprenticeship.

MyTradesecrets (<https://tradesecrets.alberta.ca/mytradesecrets/access-your-mytradesecrets-profile/>)

## CAREERS

As a welder, you'll find yourself in demand in a variety of capacities. When you complete your apprenticeship, you'll be ready to work in:

- Vessel or Structural Steel Assembly
- Commercial Construction
- Steel Fabrication
- Heavy Equipment Repair
- Pipeline Construction
- Industrial Construction

<https://tradesecrets.alberta.ca/trades-occupations/profiles/012/Welder>

[https://tradesecrets.alberta.ca/trades-occupations/profiles/0121/Welder - Wire Process Operator](https://tradesecrets.alberta.ca/trades-occupations/profiles/0121/Welder-Wire-Process-Operator)

# Welder Pre-Employment Training

Program Office: 403-320-3411 • tradeslc@lethbridgecollege.ca

## Designed for those who are not yet employed or apprenticed within the trades.

Not an apprentice? Not a problem. Kick-start your career in the trades in the Pre-Employment Welder program. Designed for those who are not yet employed or apprenticed within the welding trade, the Pre-Employment Welder program provides the first-year Alberta Apprenticeship Welding curriculum.

Trades employers are reluctant to hire employees with no experience, but you can enhance your chances in the Pre-Employment Welder program. In this pre-employment program, you'll prepare to write the first-year Alberta Apprenticeship theory and practical exams. Upon successful completion, you'll be ready to write the first-year apprenticeship exam.

## ADMISSIONS

### Welder

English 10-2 and Math 10-3 or Pass mark in all 5 Canadian G.E.D. Tests or pass Apprenticeship Entrance Exam.

## CURRICULUM

### Welder

Upon successful completion of the Pre-Employment Welding program, you will:

- be prepared to write the First Year Welding Apprenticeship theory and practical examinations.
- be prepared to be employed within the welding industry in Alberta.
- obtain a Letter of Recognition.



## CAREERS

As a welder, you'll find yourself in demand in a variety of capacities. When you complete your apprenticeship, you'll be ready to work in:

- Vessel or Structural Steel Assembly
- Commercial Construction
- Steel Fabrication
- Heavy Equipment Repair
- Pipeline Construction
- Industrial Construction

## Wind Turbine Technician

Program Office: 403.320.3411 • tradeslc@lethbridgecollege.ca

Harness the wind to power your future in our Wind Turbine Technician program, a nationally recognized program designed to meet the international certification standard and give you the skills and experience needed to succeed in one of the fastest growing technologies in the world.

In under one year, you'll learn from instructors with experience in the industry, work on actual wind turbine components like our 309,000-pound nacelle, scale the training tower that's located right on campus. Focused on safety, the Wind Turbine Technician program allows you to earn numerous safety certificates.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://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](https://lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

Note: Chromebook is not compatible with the WTT software. We recommend a Windows based laptop for optimal functionality with our programs.

## Graduation

Upon successful completion of all program requirements, students are awarded a Wind Turbine Technician certificate.

## ADMISSIONS

New students are accepted into the Wind Turbine Technician program in the Fall (September) and Winter (January) terms.

## General Admissions 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:

- coveralls or work clothes
- steel-toed boots with ankle covered
- safety glasses
- tight-fitting work gloves

## 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.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
WHS-1110	Workplace Safety	3
WTT-1100	Introductory 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
<b>Credits</b>		<b>19.5</b>
<b>Term II</b>		
WTT-1113	Wind Turbine Rotor Blades	1.5
WTT-1118	Wind Park Construction	3
WTT-1120	Wind Turbine Safety II	3
WTT-1121	Motor Controls & PLC's	3
WTT-1125	Wind Turbine Industry Communication	1.5
WTT-1127	Wind Turbine Hydraulics	1.5
WTT-1129	Wind Turbine Electrical	3
WTT-1130	Wind Turbine Maintenance	6
<b>Credits</b>		<b>22.5</b>
<b>Total Credits</b>		<b>42</b>

### 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 WTT-1100 Introductory Electrical Theory (3 credits), WTT-1103 DC Laboratory Fundamentals (3 credits), and WTT-1104 Canadian Electrical Code and Blueprint Reading (3 credits) 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.

## Apprenticeship Pathway

Students who have successfully completed Lethbridge College's Wind Turbine Technician Certificate program can continue to obtain their Journeyman Certification by registering with Apprenticeship Alberta. For more information about Alberta's apprenticeship requirements go to: <https://tradesecrets.alberta.ca/>



## CAREERS

Once certified, your skills will be extremely marketable in this burgeoning industry; many of our students are hired within days of graduation. You'll have multiple future career pathways as a:

- Apprentice Electrician
- Blade Repair Technician
- Wind Turbine Construction
- Wind Turbine Maintenance
- Wind Turbine Manufacturing
- Wind Turbine Technician

# COURSE DESCRIPTIONS

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## INFORMATION

Our continually updated programs and courses ensure you get the knowledge and skills required by today's top employers.

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 WIL 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.

## 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.

**Work Integrated Learning:** 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 PSY-1170 Human Development Across the Lifespan (3 credits) is listed as a pre-requisite for PSY-2260 Abnormal Psychology (3 credits), then PSY-1170 Human Development Across the Lifespan (3 credits) must be successfully completed in order for the PSY-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:

1. Credit courses completed with a passing grade more than ten years ago
2. A combination of credit courses with no course-to-course relationship to a single Lethbridge College credit course
3. Informal education and training activities
4. Self-study
5. Work experience
6. 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 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, 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.

## Accounting (ACC)

### ACC-1125 Service-Based Accounting (1.5 Credits)

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 (1.5 Credits)

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 Credits)

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 (3.0)

Equivalent to ACC-146.

### ACC-1170 Financial Accounting I (3 Credits)

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 (3.0)

Equivalent to ACC-170, ACC-171.

### ACC-1175 Financial Accounting II (3 Credits)

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 (3.0)

Equivalent to ACC-175, ACC-173.

Requisite courses: Take ACC-1170 (Required, Previous).

### ACC-2250 Management Accounting I (3 Credits)

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 (4.0)

Equivalent to ACC-250.

Requisite courses: Take ACC-1175 (Required, Previous).

### ACC-2251 Management Accounting II (3 Credits)

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 (4.0)

Equivalent to ACC-251.

Requisite courses: Take ACC-1175 (Required, Previous).

### ACC-2271 Intermediate Financial Accounting I (3 Credits)

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 (4.0)

Equivalent to ACC-271.

Requisite courses: Take ACC-1175 (Required, Previous).

### ACC-2273 Intermediate Financial Accounting II (3 Credits)

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 (4.0)

Equivalent to ACC-273.

Requisite courses: Take ACC-1175 (Required, Previous).

### ACC-2278 Computerized Accounting for Management (3 Credits)

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 (3.0)

Equivalent to ACC-278, ACC-276.

Requisite courses: Take ACC-1170 or ACC-1146 (Required, Previous).

## Administrative Office Professional (AOP)

### AOP-1142 Office Procedures (3 Credits)

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 (3.0)

Equivalent to OAA-1142, OAA-142.

### AOP-1143 Office Procedures II (3 Credits)

A course that incorporates the skills, knowledge and techniques obtained through the completion of previous courses into a final project. Includes the application of job search skills, involves the preparation of resumes and interview techniques, project planning focused on industry and real-world problems, employment of communication skills and technologies. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take AOP-1142 (Required, Previous).

### AOP-1145 Meeting and Conference Planning (3 Credits)

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.

## Agricultural Heavy Duty Mechanics (AHM)

### AHM-1124 Suspension and Brakes (6 Credits)

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 Credits)

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 Credits)

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 Credits)

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 Credits)

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 Credits)

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 Credits)

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 Credits)

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).

## Agriculture (AGR)

### AGR-1152 Agriculture Research Study (3 Credits)

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 (Required, Previous). Take AGR-1168 (Required, Previous). Take BIO-1175 (Required, Previous). Take ENG-1154 (Required, Previous). Take IRR-1152 (Required, Previous). Take PLT-1152 (Required, Previous). Take PLT-1155 (Required, Previous). Take RRM-2253 (Required, Previous).

### AGR-1169 Agriculture Soils (3 Credits)

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, SOL-1150.

Requisite courses: Take AGR-1169L (Required, Concurrent).

### AGR-1171 Agriculture Issues (3 Credits)

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.

Requisite courses: Take AGR-1171L (Required, Concurrent).

### AGR-2250 Agriculture Finance (3 Credits)

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 AGS-1150, AGR-250, AGR-253, AGR-283, AGR-150.

Requisite courses: Take AGR-2250L (Required, Concurrent).

**AGR-2252 Agriculture Research Study (6 Credits)**

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 (Required, Previous). Take AGR-1168 (Required, Previous). Take BIO-1175 (Required, Previous). Take ENG-1154 (Required, Previous). Take IRR-1152 (Required, Previous). Take PLT-1152 (Required, Previous). Take PLT-1155 (Required, Previous). Take RRM-2253 (Required, Previous).

**AGR-2256 Precision Agriculture (3 Credits)**

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)

Equivalent to AGS-2280.

Requisite courses: Take AGR-2256L (Required, Concurrent).

**AGR-2261 Sustainable Agriculture (3 Credits)**

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 agroforestry 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, AGS-2255.

Requisite courses: Take AGR-1168 (Required, Previous). Take IRR-1152 (Required, Previous). Take PLT-1152 (Required, Previous).

**AGR-2263 Greenhouse Management (3 Credits)**

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)

Equivalent to PLT-2264.

Requisite courses: Take PLT-1152 (Required, Previous). Take AGR-2263L (Required, Concurrent).

**AGR-2264 Intensive Livestock Production (3 Credits)**

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, ANM-2252.

Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2264L (Required, Concurrent).

**AGR-2266 Soil Fertility (3 Credits)**

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, SOL-2250.

Requisite courses: Take RRM-2253 (Required, Previous). Take AGR-2266L (Required, Concurrent).

**AGR-2267 Cow Calf Management (3 Credits)**

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, ANM-2250.

Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2267L (Required, Concurrent).

**AGR-2268 Beef Feedlot Management (3 Credits)**

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)

Equivalent to ANM-2253.

Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2268L (Required, Concurrent).

**AGR-2270 Agricultural Business Law (3 Credits)**

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 Credits)**

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, ANM-2254.

Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2280L (Required, Concurrent).

**AGR-2286 Agricultural Business Management (3 Credits)**

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-2291 Ruminant Production (3 Credits)**

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 Credits)**

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, ANM-2251.

Requisite courses: Take BIO-1175 (Required, Previous). Take AGR-2294L (Required, Concurrent).

## Agriculture (AGS)

**AGS-1150 Agriculture Finance (3 Credits)**

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 (3.0), Lab (2.0)

Equivalent to AGR-2250, AGR-250, AGR-253, AGR-283, AGR-150.

Requisite courses: Take AGS-1150L (Required, Concurrent).

**AGS-2250 Canadian and World Agriculture (3 Credits)**

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)

Equivalent to AEM-2270.

**AGS-2251 Agriculture Policy (3 Credits)**

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)

Equivalent to AEM-2280.

Requisite courses: Take ECN-1180 (Required, Previous).

**AGS-2255 Sustainable Agriculture (3 Credits)**

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 agroforestry are covered. Emphasis is on the development of an Environmental Farm Plan that combines field assessments with best management practices.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2261, AGR-261, AGR-258.

Requisite courses: Take BIO-1167 (Required, Previous). Take AGS-2255L (Required, Concurrent).

**AGS-2280 Precision Agriculture I (3 Credits)**

An introduction to the concepts and applications of map reading, remote sensing, Global Navigation Satellite Systems (GNSS) and Geographic Information System (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.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2256.

Requisite courses: Take AGS-2280L (Required, Concurrent).

**AGS-3381 Agriculture Equipment (3 Credits)**

A study of agriculture equipment used for field crops, special crops and forage production in Western Canada. Equipment includes tractors, tillage, seeding, chemical application, forage harvesting, and grain harvesting equipment. Emphasis placed on operation, maintenance and adjustment for optimum performance.

Instruction (3.0), Lab (2.0)

Requisite courses: AGS-3381L (Required, Concurrent).

**AGS-3382 Telematics and Sensors (3 Credits)**

Introduces a variety of sensing technologies to monitor variables affecting crop production. A focus on telematics, communication technologies and sensor integration protocols.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-3385 (Required, Previous). Take AGS-3382L (Required, Concurrent).

**AGS-3385 Precision Agriculture II (3 Credits)**

This course builds on concepts and applications covered in Precision Agriculture I, providing students with a more detailed understanding of data, technologies, and techniques in data driven agriculture. Students will obtain firsthand experience applying technology and techniques to real world agriculture problems with an emphasis on current industry trends.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-2280 (Required, Previous). Take AGS-3385L (Required, Concurrent).

**AGS-4450 Agriculture Issues (3 Credits)**

Changing demands of agriculture and food production, emerging technologies, consumer preferences and food safety, diversification, government policy and social license are objectively evaluated. Student led research, discussion, and debate on current agriculture issues.

Instruction (3.0)

**AGS-4481 Crop Production Technology (3 Credits)**

A study of current crop production technology, its function and maintenance, potential, and application. Real data sets are evaluated using current crop production technology to make agronomic recommendations.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-3385 (Required, Previous). Take AGS-4481L (Required, Concurrent).

**AGS-4483 Harvest and Crop Storage Technology (3 Credits)**

A study of current agriculture harvesting and storage equipment technology, its function and maintenance, potential and application. Real data sets are evaluated using current harvest and storage technology to make agronomic recommendations.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-3385 (Required, Previous). Take AGS-4483L (Required, Concurrent).

**AGS-4485 Livestock Technology (3 Credits)**

A study of current agriculture livestock equipment technology, its function and maintenance, potential, and application. Real data sets are evaluated using current livestock technology to make production recommendations.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-3385 (Required, Previous). Take AGS-4485L (Required, Concurrent).

## Agriculture Enterprise Management (AEM)

**AEM-1150 Western Canada Livestock (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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)

Equivalent to AGS-2250.

**AEM-2280 Agricultural Policy (3 Credits)**

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)

Equivalent to AGS-2251.

Requisite courses: Take ECN-1180 (Required, Previous).

## Animal (ANM)

**ANM-2250 Cow Calf Management (3 Credits)**

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.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2267, AGR-2289, AGR-289.

Requisite courses: Take BIO-1175 (Required, Previous). Take ANM-2250L (Required, Concurrent).

**ANM-2251 Animal Health (3 Credits)**

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 (3.0), Lab (2.0)

Equivalent to AGR-2294, AGR-294.

Requisite courses: Take BIO-1175 (Required, Previous). Take ANM-2251L (Required, Concurrent).

**ANM-2252 Intensive Livestock Production (3 Credits)**

Intensive livestock production field trips, reports and presentations with an emphasis on production, marketing/processing enterprises and feed processing facilities.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2264, AGR-2287, AGR-287.

Requisite courses: Take BIO-1175 (Required, Previous). Take ANM-2252L (Required, Concurrent).



**ANM-2253 Beef Feedlot Management (3 Credits)**

Management of feedlot cattle including feeding, growth and health, facility design and environmental impact, carcass quality and marketing.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2268.

Requisite courses: Take BIO-1175 (Required, Previous). Take ANM-2253L (Required, Concurrent).

**ANM-2254 Animal Nutrition (3 Credits)**

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.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2280.

Requisite courses: Take BIO-1175 (Required, Previous). Take ANM-2254L (Required, Concurrent).

## Anthropology (ANT)

**ANT-1195 Cultural Anthropology (3 Credits)**

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 supplemental.

Instruction (3.0)

Equivalent to HUM-1195, HUM-195.

**ANT-2295 Anthropology of Gender (3 Credits)**

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, or SOC-1160 (Required, Previous).

## Archaeology (ARK)

**ARK-1165 Introduction Into Archaeology (3 Credits)**

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 Credits)**

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 Credits)**

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).

## Architectural Animation (AAT)

**AAT-2250 Visual Communication (3 Credits)**

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), Tutorial (1.0)

Requisite courses: Take AAT-2250L (Required, Concurrent). Take AAT-2250T (Required, Concurrent).

**AAT-2251 Building Systems and Code (3 Credits)**

An introduction to a variety of architectural systems and the Alberta Building Code. Students will learn how to calculate occupancy loads, plan for egress clearances and exit requirements as well as calculate building loads and spans where applicable to their studio design projects. Not available for supplemental.

Instruction (3.0)

**AAT-2260 Immersive Modeling (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take IDM-1190 (Required, Previous). Take AAT-2260L (Required, Concurrent). Take VXR-1150; (Required, Concurrent). Take AAT-2260T (Required, Concurrent).

**AAT-2261 Immersive Architecture (3 Credits)**

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), Tutorial (1.0)

Requisite courses: Take AAT-2260 (Required, Previous). Take AAT-2261L (Required, Concurrent). Take AAT-2261T (Required, Concurrent).

**AAT-2270 Production (3 Credits)**

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), Tutorial (1.0)

Requisite courses: Take AAT-2270L (Required, Concurrent). Take AAT-2270T (Required, Concurrent).

**AAT-2280 Capstone Studio (6 Credits)**

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 (2.0), Lab (2.0), Tutorial (2.0)

Requisite courses: Take AAT-2250 (Required, Previous). Take AAT-2260 (Required, Previous). Take AAT-2270 (Required, Previous). Take AAT-2280L (Required, Concurrent). Take AAT-2280T (Required, Concurrent).

**AAT-2290 Industry Integration (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to AAT-2290W.

Requisite courses: Take AAT-2250 (Required, Previous). Take AAT-2260; (Required, Previous). Take AAT-2270; (Required, Previous).

## Art (ART)

**ART-1150 Art Explorations (3 Credits)**

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 Credits)**

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 Credits)**

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.

## Automotive Systems (AST)

**AST-1116 Introduction to Trade Practices (1.5 Credits)**

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 (Required, Concurrent). Take AST-1116L (Required, Concurrent).

**AST-1119 Basic Automotive Electrical I (3 Credits)**

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 (Required, Concurrent). Take

AST-1116 (Required, Concurrent). Take AST-1122 (Required, Concurrent).

**AST-1122 Automotive Industry (1.5 Credits)**

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 Credits)**

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 (Required, Concurrent). Take AST-1116 (Required, Concurrent). Take AST-1133 (Required, Concurrent). Take AST-1131L (Required, Concurrent).

**AST-1133 Automotive Drivelines (3 Credits)**

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 (Required, Concurrent). Take AST-1122 (Required, Concurrent). Take AST-1133L (Required, Concurrent).

**AST-1134 Auto Directional Control Systems (3 Credits)**

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 (Required, Concurrent). Take AST-1116 (Required, Concurrent). Take AST-1134L (Required, Concurrent).

**AST-1135 Basic Maintenance (3 Credits)**

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 Credits)**

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 (Required, Previous). Take AST-1119 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1138L (Required, Concurrent).

**AST-1139 Advanced Automotive Electrical Systems (3 Credits)**

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 (Required, Previous). Take AST-1119 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1138 (Required, Concurrent). Take AST-1139L (Required, Concurrent).

**AST-1141 Automotive Drivetrains (3 Credits)**

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 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1141L (Required, Concurrent).

**AST-1142 Automotive Engine Systems (3 Credits)**

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 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1142L (Required, Concurrent). Take AST-1143 (Required, Concurrent).

**AST-1143 Engine Fundamentals (3 Credits)**

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 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1142 (Required, Concurrent). Take AST-1143L (Required, Concurrent).

**AST-1145 Performance Projects (3 Credits)**

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 (Required, Previous). Take AST-1122 (Required, Previous). Take AST-1145L (Required, Concurrent).

## Biology (BIO)

**BIO-0020 Biology 0020 (6 Credits)**

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 Credits)**

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-1146 Joints and Soft Tissues (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 identification of individualized strategies of personal health issues, 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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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. 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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

A study of the identification and classification of gymnosperms and angiosperms including trees, shrubs, grasses, grass-like, aquatic, 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 Credits)**

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 (Required, Concurrent).

**BIO-1175 Animal Science (3 Credits)**

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 (3.0), Lab (2.0)

Equivalent to BIO-175, AGR-182.

Requisite courses: Take BIO-1175L (Required, Concurrent).

**BIO-1180 Human Physiology (3 Credits)**

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-1195 Introduction to Aquaponics Principles (3 Credits)**

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 naturally fertilized by intensive fish culture.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-1160.

Requisite courses: Take BIO-1195L (Required, Concurrent).

**BIO-2263 Animal Physiology I (3 Credits)**

Domestic farm mammalian and avian physiology including hematology, respiration, the cardiovascular system, renal physiology and monogastric digestion. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Equivalent to BIO-2262, BIO-262, BIO-259.

Requisite courses: Take BIO-1175 (Required, Previous). Take BIO-2263L (Required, Concurrent).

**BIO-2264 Animal Physiology II (3 Credits)**

Domestic farm mammalian and avian physiology including ruminant digestion, endocrinology, pre-natal growth, reproduction and lactation. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Requisite courses: Take BIO-1175 (Required, Previous). Take BIO-2264L (Required, Concurrent).

**BIO-3350 Comparative Animal Biology (3 Credits)**

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).

**BIO-3352 Applied Biotechnology (3 Credits)**

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 Credits)**

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 Credits)**

An in depth study of the Class Mammalia. Key concepts covered include mammalian characteristics (form and function), adaptations (physiological, behavioral, and ecological) and diversity of extant species. Laboratory sessions involve detailed study of the mammalian body plan through specimen dissection. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Requisite courses: Take BIO-4462L (Required, Concurrent).

## Blackfoot (BLK)

**BLK-1151 Blackfoot Language I (3 Credits)**

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 Credits)**

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).

## Business (BUS)

**BUS-1124 Service-Based Small Business Management (3 Credits)**

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 Credits)**

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-1170 Introduction to Management (3 Credits)**

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 (3.0)

Equivalent to BUS-170.

**BUS-1177 Entrepreneurship (3 Credits)**

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-1185 Business Computer Applications (1.5 Credits)**

A skills based approach to attain and ensure a minimum level of understanding and competence working with common business orientated software packages in a windows environment. Not available for supplemental.

Instruction (3.0)

Equivalent to BUS-185.

**BUS-2268 Organizational Behavior (3 Credits)**

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 (3.0)

Equivalent to BUS-268.

Requisite courses: Take BUS-1170 (Required, Previous).

**BUS-2275 International Business (3 Credits)**

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 (Required, Previous). Take BUS-1170; (Required, Previous).

**BUS-2276 Financial Planning (3 Credits)**

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 (3.0)

Equivalent to BUS-1176, BUS-176.

Requisite courses: Take BUS-1185 (Required, Previous).

**BUS-2277 Retailing Strategies (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to MKT-2277, MKT-277.

Requisite courses: Take MKT-1188 (Required, Previous).



**BUS-2278 Industrial and Labour Relations (3 Credits)**

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.

Requisite courses: Take BUS-1166 (Required, Previous).

**BUS-2281 Logistics (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to MKT-2281, MKT-281.

Requisite courses: Take MKT-1188 (Required, Previous).

**BUS-2283 Integrated Marketing Communication (3 Credits)**

Covers advertising as an integral element of the marketing mix. Topics include various media, their 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 (3.0), Work Integrated Learning (1.0)

Equivalent to MKT-2283, MKT-283, BUS-283.

Requisite courses: Take MKT-1188 (Required, Previous). Take BUS-2283W (Required, Concurrent).

**BUS-2285 Advanced Small Business Management (3 Credits)**

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), Work Integrated Learning (1.0)

Equivalent to BUS-285.

Requisite courses: Take BUS-1177 (Required, Previous). Take MKT-1188 (Required, Previous). Take ACC-1170 (Required, Previous). Take BUS-2285W (Required, Concurrent).

**BUS-2286 Introduction to Supply Chain Management (3 Credits)**

An introduction to the key components that comprise Supply Chain Management, including supply management, operations, logistics, and integration. Focus will be on purchasing, distribution, business operations of forecasting and inventory responsiveness, critical information systems methods, and utilizing key performance indicators for feasibility and decision-making.

Instruction (3.0)

Requisite courses: Take BUS-1170 (Required, Previous). Take CPU-1165 (Required, Previous).

**BUS-2287 Business Analytics and Decision Making (3 Credits)**

The exploration of the way in which organizations use data to make evidence-based decisions. The focus will be on reporting, visualization, and prediction techniques used to make sound business decisions. Topics also include block chain and big data.

Instruction (3.0)

Requisite courses: Take BUS-1170 (Required, Previous).

**BUS-2288 Project Management (3 Credits)**

A skills-based overview of project management. Integrates knowledge areas of scope, schedule, cost, resource, communications, quality, risk and procurement into management process groups of initiating, planning, executing, monitoring and controlling, and closing. Not available for supplemental.

Instruction (3.0), Work Integrated Learning (1.0)

Equivalent to BUS-1180, BUS-180.

Requisite courses: Take BUS-1170 ENG-1150 or ENG-1159 (Required, Previous). Take BUS-2288W (Required, Concurrent).

**BUS-2290 Business Research Methods (3 Credits)**

A hands-on approach to research concepts and phases. Students conduct research studies for a variety of projects, gaining practical experience in research ethics, survey design, focus group facilitation, as well as research using observation, interviews, and more formal strategies. Research projects vary from term to term. Not available for supplemental.

Instruction (3.0)

Equivalent to MKT-2290, MKT-290.

Requisite courses: Take MKT-1188 (Required, Previous).

**BUS-2292 Business Finance (3 Credits)**

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 (4.0)

Equivalent to BUS-292.

Requisite courses: Take ACC-1175 (Required, Previous).

**BUS-2293 Advanced Marketing Strategies (3 Credits)**

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. Integration of marketing elements in the analysis and creation of marketing strategies. Not available for supplemental.

Instruction (3.0), Work Integrated Learning (1.0)

Equivalent to MKT-2288, MKT-288.

Requisite courses: Take MKT-1188 (Required, Previous). Take BUS-2293W (Required, Concurrent).

**BUS-2298 Human Resource Management (3 Credits)**

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 (3.0), Work Integrated Learning (1.0)

Equivalent to BUS-298.

Requisite courses: Take BUS-1170 (Required, Previous). Take BUS-2298W (Required, Concurrent).

## Career Planning (CPL)

### CPL-1150 Community Service Learning (3 Credits)

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.

Work Integrated Learning (3.0)

Equivalent to CPL-150, CPL-1150W.

### CPL-2250 Community Service Learning II (3 Credits)

This course provides an intermediate opportunity for students to participate in Service Learning, a program that connects the curriculum to volunteerism within the community.

Work Integrated Learning (10.0), Instruction (1.0)

Requisite courses: Take CPL-1150W (Required, Previous). Take CPL-2250W (Required, Concurrent).

## Central Sterile (CSP)

### CSP-1142 MDR Practicum (6 Credits)

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 Integrated Learning (6.0)

Equivalent to CSP-1142W.

Requisite courses: Take BIO-1162 (Required, Previous). Take COM-1162 (Required, Previous). Take CPU-1151 (Required, Previous). Take CSP-1150 (Required, Previous). Take CSP-1160 (Required, Previous). Take ENG-1154 (Required, Previous).

### CSP-1150 Medical Terminology/Anatomy and Physiology (3 Credits)

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 (3.0)

Equivalent to CSP-150.

### CSP-1160 Practices Surgical Instrument Processing (6 Credits)

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.

## Chemistry (CHM)

### CHM-0020 Chemistry 0020 (6 Credits)

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 Credits)

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-1150 Introduction to Chemistry I (3 Credits)

An introduction to the fundamental principles of chemistry. Topics include Atomic structure, Bonding, Stoichiometry, Enthalpy, Solutions, Organic compounds. Students registering for this course should have completed CHM-0030 and MTH-0030 or equivalents. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (3.0), Lab (2.0)

Requisite courses: Take CHM-1150L (Required, Concurrent).

### CHM-1151 Chemistry in Context (3 Credits)

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 Credits)

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 Credits)

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-3350 Agriculture Chemistry (3 Credits)**

The study of the compositions, interactions and changes in chemicals related to agricultural systems and food processing with emphasis on production and environmental protection.

Instruction (3.0), Lab (2.0)

Requisite courses: Take CHM-3350L (Required, Concurrent).

**CHM-4455 Analytical Chemistry (3 Credits)**

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 Credits)**

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).

## Child and Youth Care (CYC)

**CYC-1158 Communications in CYC Practice (3 Credits)**

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 Credits)**

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 and Assessment (3 Credits)**

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 and Roles of CYC (3 Credits)**

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 Credits)**

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-1173 (Required, Previous). Take CYC-1158; (Required, Previous).

**CYC-1178 CYC Clinical Practice I (3 Credits)**

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 Integrated Learning (16.0)

Equivalent to CYC-178, CYC-176, CYC-1178W.

Requisite courses: Take CYC-1158 (Required, Previous). Take CYC-1169 (Required, Previous). Take CYC-1173 (Required, Previous). Take CYC-1180 (Required, Previous). Take CYC-1194 (Required, Previous). Take CYC-1163 (Required, Concurrent). Take CYC-1175 (Required, Concurrent).

**CYC-1180 Counselling Techniques I (3 Credits)**

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-1178W (Required, Concurrent).

**CYC-1194 Activity Leadership (3 Credits)**

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 Credits)**

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 (Required, Previous). Take CYC-1173 (Required, Previous). Take HSP-1151; (Required, Previous). Take CYC-2255W (Required, Concurrent).

**CYC-2253 Group Process (3 Credits)**

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 (3.0)

Equivalent to CYC-1193, CYC-193.

Requisite courses: Take CYC-1158 (Required, Previous). Take CYC-1169 (Required, Previous).

**CYC-2255 CYC Clinical Practice II (6 Credits)**

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 Integrated Learning (6.0)

Equivalent to CYC-255, CYC-256, CYC-2255W.

Requisite courses: Take CYC-1178 (Required, Previous). Take CYC-1180 (Required, Previous). Take CYC-2251 (Required, Concurrent). Take CYC-2280 (Required, Concurrent).

**CYC-2260 Mental Health/Substance Abuse in CYC (3 Credits)**

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 Credits)**

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 (Required, Previous). Take CYC-2255 (Required, Previous). Take CYC-2280; (Required, Previous). Take CYC-2285W (Required, Concurrent).

**CYC-2272 Family Violence (3 Credits)**

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 Credits)**

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 (Required, Previous). Take CYC-1163 (Required, Previous). Take CYC-1175 (Required, Previous). Take CYC-2255W (Required, Concurrent).

**CYC-2285 CYC Clinical Practice III (6 Credits)**

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 Integrated Learning (19.0)

Equivalent to CYC-285, CYC-271, CYC-2285W.

Requisite courses: Take CYC-2251 (Required, Previous). Take CYC-2255 (Required, Previous). Take CYC-2280 (Required, Previous). Take CYC-2269 (Required, Concurrent).

## Civil Engineering (CIV)

**CIV-2256 Civil Software Applications (3 Credits)**

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), Lab (2.0)

Requisite courses: Take CAD-1160 (Required, Previous). Take CIV-2256L (Required, Concurrent).

**CIV-2257 Environmental Engineering (3 Credits)**

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 (4.0)

Equivalent to CIV-257.

Requisite courses: Take ENF-2250 (Required, Concurrent).

**CIV-2260 Highway Design (3 Credits)**

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 (Required, Previous). Take ENF-2250 (Required, Previous). Take SUR-1180; (Required, Previous). Take CIV-2260L (Required, Concurrent).



**CIV-2262 Structural Design I (6 Credits)**

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 Credits)**

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 (5.0)

Requisite courses: Take ENF-2250 (Required, Previous).

**CIV-2274 Infrastructure Design (3 Credits)**

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 (3.0)

Equivalent to CIV-274.

Requisite courses: Take CIV-2256 (Required, Previous).

**CIV-2275 Structural Design II (3 Credits)**

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 (3.0), Lab (2.0)

Equivalent to CIV-2266, CIV-266.

Requisite courses: Take CON-1165 (Required, Previous). Take ENF-1166 (Required, Previous). Take CIV-2275L (Required, Concurrent).

**CIV-2298 Work Experience (1.5 Credits)**

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 Integrated Learning (1.5)

Equivalent to CIV-2298W.

## College Preparation (COL)

**COL-1103 Introduction to Learning Strategies (1.5 Credits)**

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 Credits)**

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.

## Communication (COM)

**COM-1137 Communication Skills (1.5 Credits)**

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 Credits)**

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 (1.5 Credits)**

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-1158 Leadership Communication Skills (1.5 Credits)**

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 Credits)**

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 and Communications (3 Credits)**

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, BUS-1168.

**COM-1164 Technical Communications (3 Credits)**

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 Public Safety Communications/Interpersonal Relations (3 Credits)**

The development of professional and personal communication skills. An emphasis on actively listening, communicating verbally and non-verbally, collaborating with others, and presenting effectively. A focus on recognizing personal strengths to function in a team setting. Relevant public safety topics are used as a basis for further research and presentation. Not available for supplemental.

Instruction (3.0)

**COM-1170 Helping Relationships (3 Credits)**

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-2263 Interpersonal Skills in Enforcement (3 Credits)**

A skills based approach to handling sensitive situations encountered in the natural resources enforcement field. Emphasis is placed on verbal judo and technical communications.

Instruction (3.0)

Equivalent to COM-263.

**COM-2275 Interviewing Methods (3 Credits)**

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-3350 Strategic Consulting (3 Credits)**

An examination of the skills necessary for successful consulting, professionally engaging clients and implementing techniques to generate accurate and competitive advantage. A focus on experiential practice with consultation and project management techniques in the context of the diverse cultural and social variability within the agriculture field.

Instruction (3.0)

Requisite courses: Take COM-1162 (Required, Previous).

## Communication Arts (CAP)

**CAP-1158 Communication Process (3 Credits)**

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.

## Computer Assisted Drafting (CAD)

**CAD-1160 Graphic Communications (3 Credits)**

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)

## Computer Information Technology (CIT)

**CIT-1152 Computer Hardware Maintenance (3 Credits)**

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 Credits)**

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 Credits)**

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 (Required, Previous). Take MTH-1152 (Required, Previous).

**CIT-1157 HTML and Web Publishing (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 (Required, Previous). Take CIT-1158 (Required, Previous). Take CIT-1163; (Required, Previous). Take CIT-2255; (Required, Previous). Take CIT-2259L (Required, Concurrent).

**CIT-2260 Algorithms and Problem Solving (3 Credits)**

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 (1.5 Credits)**

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 (1.5 Credits)**

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 Credits)**

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 (Required, Previous). Take CIT-1157; (Required, Previous). Take CIT-1158; (Required, Previous). Take CIT-1163; (Required, Previous).

**CIT-2268 User-Centred Interface Design (3 Credits)**

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 (Required, Previous). Take CIT-1157 (Required, Previous).

**CIT-2269 Mobile App Development (3 Credits)**

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 (Required, Previous). Take CIT-1163 (Required, Previous).

**CIT-2270 IT Integration Seminar (1.5 Credits)**

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 (Required, Previous). Take CIT-1156 (Required, Previous). Take CIT-1157 (Required, Previous). Take CIT-1158 (Required, Previous). Take CIT-1163 (Required, Previous). Take ENG-1159 (Required, Previous).

**CIT-2271 IT Field Work (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to CIT-271, CIT-2271W.

Requisite courses: Take CIT-2255 (Required, Previous). Take CIT-2265 (Required, Previous). Take CIT-2270 (Required, Previous).

**CIT-2275 Systems Analysis and Design I (3 Credits)**

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 (Required, Previous). Take CIT-1158 (Required, Previous). Take CIT-1163 (Required, Previous). Take ENG-1159 (Required, Previous). Take CIT-2275L (Required, Concurrent).

**CIT-2276 Systems Analysis and Design II (3 Credits)**

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).

## Computer Processing (CPU)

**CPU-1151 Introduction to Computers (1.5 Credits)**

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 Credits)**

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 Business Applications II (3 Credits)**

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 (1.5 Credits)**

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 Credits)**

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 Credits)**

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.

Requisite courses: Take BUS-1185 CPU-1151 or AOP-1142 (Required, Previous).

**CPU-2275 Geomatics Programming II (3 Credits)**

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).

## Conservation Enforcement (CEN)

### **CEN-2255 Ethics and Career Development (3 Credits)**

An examination of ethics and development of employment skills specific to the field of natural resource enforcement. Emphasis is on professionalism, codes of ethics, and standards of conduct. Not available for supplemental.

Instruction (3.0)

Equivalent to DCE-2255.

### **CEN-2259 Operational Procedures (3 Credits)**

A skills-based approach necessary for students to conduct effective and efficient enforcement operations. Emphasis is on duties, responsibilities, and procedures required of various resource enforcement operations. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Equivalent to CJP-2269.

Requisite courses: Take LAW-1161 (Required, Previous). Take CEN-2259L (Required, Concurrent).

### **CEN-2267 Natural Resource Legislation (3 Credits)**

An advanced study of natural resource legislation. Focus is on interpretation, structure, authorities, offences and other administrative and procedural sections. Interpretation and analysis of Aboriginal case law. Not available for supplemental.

Instruction (5.0)

Equivalent to CJP-2267.

Requisite courses: Take LAW-1161 (Required, Previous).

### **CEN-2269 Field Investigation Techniques (3 Credits)**

An introduction to the field component of natural resources investigation that focuses on the steps required from the time a call is received through to the end of the field portion of the investigation. Emphasis is on effective information and data gathering, scene management, and evidence procedures. 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 Credits)**

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 Credits)**

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.

### **CEN-3357 Environmental Compliance Techniques (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 (Required, Previous). TAKE CEN-3369 (Required, Previous). Take LAW-2264 (Required, Previous).

### **CEN-3389 Problem Wildlife Management Techniques (3 Credits)**

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 Credits)**

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 Credits)**

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 Integrated Learning (6.0)

Equivalent to DCE-4455, DCE-455, CEN-4455W.

**CEN-4460 Community Involvement (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4460, DCE-460, CEN-4460W.

**CEN-4465 Hazard Assessment and Public Safety (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4465, DCE-465, CEN-4465W.

**CEN-4470 Habitat Protection (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4470, DCE-470, CEN-4470W.

**CEN-4475 Problem Wildlife Field Techniques (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4475, DCE-475, CEN-4475W.

**CEN-4480 Administrative Techniques (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4480, DCE-480, CEN-4480W.

**CEN-4485 Program Management (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCE-4485, DCE-485, CEN-4485W.

**CEN-4491 Senior Enforcement Project (6 Credits)**

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 Integrated Learning (6.0)

Equivalent to DCE-4491, DCE-491, CEN-4491W.

**CEN-4496 Independent Study (6 Credits)**

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.

## Construction (CON)

**CON-1162 Engineering Management I (3 Credits)**

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 (5.0)

**CON-1165 Construction Materials (3 Credits)**

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 (2.0)

Requisite courses: Take CON-1165L (Required, Concurrent).

**CON-1180 Construction Engineering I (3 Credits)**

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)

Requisite courses: Take CAD-1160 (Required, Previous). Take COM-1164 (Required, Previous).

**CON-2255 Construction Engineering II (3 Credits)**

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 (4.0)

Equivalent to CON-255, CON-250, CON-217, CON-224.

Requisite courses: Take CON-1180 (Required, Previous).



**CON-2260 Engineering Management II (3 Credits)**

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 (4.0)

Requisite courses: Take CON-1162 (Required, Previous).

## Corrections (COR)

**COR-1152 Fundamentals of Corrections (3 Credits)**

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 (1.5 Credits)**

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 CJP-1177, CJP-1188, COR-153.

**COR-1154 Suicide Prevention (1.5 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 and Counselling (3 Credits)**

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.

**COR-2287 Crisis Resolution (3 Credits)**

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, CJP-287.

**COR-2290 Correctional Practices (3 Credits)**

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, COR-2295.

Requisite courses: Take ENG-1175 (Required, Previous).

**COR-2295 Correctional Case Work and Practices (3 Credits)**

This course is an examination of the principles, ethics, and values associated with effective casework processes in corrections and the application of specific practices of correctional professionals. A practical course dealing with the daily job functions common to both Federal and Provincial corrections. Case studies are employed to give students direct and practical experience in the casework, parole hearings, and community based program processes used in correctional organizations and agencies. Not available for supplemental.

Instruction (3.0)

Equivalent to COR-2290, COR-290.

## Criminal Justice (CJP)

**CJP-1101 Criminal Justice Seminar I (1.5 Credits)**

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 Credits)**

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 Credits)**

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)

**CJP-1160 Introduction to Criminal Justice System (3 Credits)**

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-1163 Human Relations for Commercial Vehicle Enforcement (3 Credits)**

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-1177 Applied English & Public Safety Writing (3 Credits)**

Application of technical and academic writing skills, including APA standards, employment documents, and research papers. Create supporting artifacts of which comprise the competency portfolio. Examine public safety note-taking methods, while producing notebook entries based on scenarios. Not available for supplemental.

Instruction (3.0)

Equivalent to CJP-1188, COR-1153, COR-153.

Requisite courses: Take ENG-1150 (Required, Previous).

**CJP-1183 Diversity Issues in Criminal Justice (3 Credits)**

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.

**CJP-1185 Diverse Populations in Public Safety (3 Credits)**

This course will allow students to analyze the challenges presented by diversity in the communities served by the public safety industry. Various learning activities will be used to develop empathy and promote inclusion as a way to enhance an organization's performance. Students will focus on the recognition, affirmation and reconciliation of various communities. This analysis will include but not be limited to ethnic, racial, linguistic, orientation, class, religious diversity, and varying cognitive and physical abilities. Special attention will be given to explore unconscious and identified bias in order to critically examine the development of professional attitudes in the workplace and community. Not available for supplemental.

Instruction (3.0)

Equivalent to CJP-1183, CJP-183.

**CJP-1188 Applied English and Investigative Writing (3 Credits)**

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)

Equivalent to CJP-1177, COR-1153, COR-153.

Requisite courses: Take ENG-1175 (Required, Previous).

**CJP-2252 Criminal Justice Practicum (3 Credits)**

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, FWK-2280, FWK-2272W, FWK-2280W, FWK-2272, FWK-2273, FWK-272, FWK-273, CJP-272, CJP-273.



**CJP-2278 Criminology (3 Credits)**

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 Introduction to Commercial Vehicle Enforcement (3 Credits)**

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 Credits)**

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.

**CJP-2287 Strategies in Crisis Situations (3 Credits)**

An application of the theoretical concepts and skills acquired in previous courses, such as self-awareness, emotional intelligence, empathy, aggressive vs assertive behavior and assisting people with mental health diagnosis. Focuses on the mechanics involved in various crisis situations. Strategies, skills and techniques for safe and effective intervention, resolution and mediation using exercises, simulation and reflections are emphasized. Not available for supplemental.

Instruction (3.0)

Equivalent to COR-2287, COR-287.

**CJP-2288 Investigative Techniques (3 Credits)**

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)

Equivalent to CJP-2289.

**CJP-2289 Investigative Techniques (3 Credits)**

An introduction to various investigative techniques available to law enforcement in conducting criminal investigations. The focus of this course is on the skills and resulting documentation needed to conduct proper criminal investigations. The focus will be on effective statement taking, search and seizure, documentation of exhibits, report writing, different types of judicial authorizations and other relevant issues in investigations. Not available for supplemental.

Instruction (3.0)

Equivalent to CJP-2288.

**CJP-2293 Organizational Awareness in Public Safety (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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)

## Design (DES)

**DES-1155 Graphic Design (3 Credits)**

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 and Interface Design (3 Credits)**

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).

# Digital Communications and Media (DCM)

## DCM-1150 Research and Writing for Digital Media (3 Credits)

An introduction to writing for print, broadcast and online formats. Emphasis is on information gathering and dissemination, including the importance of accuracy and working to meet deadlines. An application of industry editing and formatting, Canadian Press style, news value judgments, commercial writing, as well as coverage of local, provincial and national issues. Not available for supplemental.  
Instruction (1.5), Lab (4.5)  
Requisite courses: Take DCM-1150L (Required, Concurrent).

## DCM-1159 Media Law and Ethics (3 Credits)

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-1160 Media History and Regulations (1.5 Credits)

An exploration of the evolution of storytelling from the printing press to the latest technological advancements. Cultural impacts of the news and entertainment industries, ethical implications, regulations, history, functions, role and the effect of mass communication on society will be examined. Not available for supplemental.  
Instruction (2.0)

## DCM-1161 Communication in Media (1.5 Credits)

A study of dynamic personality types when interviewing subjects in the media. An explanation of how communication styles vary when people's cultural backgrounds and interpersonal styles differ. Effective media-based scenarios communication theory and strategies will be demonstrated in real life scenarios, role-playing, public speaking and announcing. Not available for supplemental.  
Instruction (1.0), Lab (2.0)  
Requisite courses: Take DCM-1161L (Required, Concurrent).

## DCM-1162 Introduction to Video Production (3 Credits)

Care and use of DSLR cameras, peripheral equipment and related software will be explored. Emphasis is placed on developing introductory skills to produce video and audio and includes the importance of content and composition while dealing with variable lighting and sound conditions. Includes editing techniques and editing concepts for producing videos. Not available for supplemental.  
Instruction (2.0), Lab (2.0)  
Requisite courses: Take DCM-1162L (Required, Concurrent).

## DCM-1164 Introduction to Design Software and Photography (3 Credits)

An introduction to design software and DSLR camera functions to develop skills that allow for production of still visuals used in the media. Use of design software covers effective file management, desktop publishing and basic layout techniques in creating various documents. An emphasis on photographic depth of field, subjects in motion, proper lighting techniques and editing images. Not available for supplemental.  
Instruction (4.5)

## DCM-1166 Introduction to Audio Production (3 Credits)

An introduction to recording and editing of digital audio for all media. An exploration of handheld mobile recorders, studio microphones, digital audio mixing and editing software and a digital newswire service. Application includes introducing oral presentation skills. Not available for supplemental.  
Instruction (2.0), Lab (2.0)  
Requisite courses: Take DCM-1166L (Required, Concurrent).

## DCM-1167 Marketing Fundamentals for Media (3 Credits)

An introduction to the principles, tools and techniques used in marketing, with a specific focus on public relations and advertising. Emphasis is on identifying communication opportunities, choosing target audiences and using social media, news media and advertising platforms to implement campaigns. Not available for supplemental.  
Instruction (3.0)

## DCM-1169 Audio Writing and Production I (3 Credits)

A study of skills required in the creation of audio-based journalism and creative content. An introduction to commercial production, live and recorded radio and online hosting and presentation using industry technology, regulations and formats. Topics include project management, teamwork, story generation, creative script writing, oral presentation, recording and editing audio content and interviewing techniques for broadcast and online platforms. Not available for supplemental.  
Instruction (1.5), Lab (3.0)

Requisite courses: Take DCM-1166 (Required, Previous). Take DCM-1150 (Required, Previous). Take DCM-1169L (Required, Concurrent).

## DCM-1172 Video Writing and Production I (3 Credits)

A skills based approach to creating introductory level news, commercial and production segments for television. Emphasis on multi-camera production, project management, working in teams, originating story ideas and commercial scripts, recording and editing audio and visual content. Topics include hosting and interviewing for television, organizing news and commercial content for broadcast and online delivery. Not available for supplemental.  
Instruction (1.5), Lab (3.0)

Requisite courses: Take DCM-1162 (Required, Previous). Take DCM-1150 (Required, Previous). Take DCM-1172L (Required, Concurrent).

## DCM-1173 Publishing, Photography and Design I (3 Credits)

An exploration of skills for writing, producing and photographing media products. Gathering and disseminating information, including the importance of accuracy and deadlines. Evaluating and demonstrating effective photographic and design composition will be covered. Not available for supplemental.  
Instruction (1.0), Lab (3.5)

Requisite courses: Take DCM-1150 (Required, Previous). Take DCM-1164 (Required, Previous). Take DCM-1173L (Required, Concurrent).

## DCM-2258 Promotions and Marketing (3 Credits)

An application of marketing and promotion within the media industry. Tasks include identifying promotional opportunities for self-promotion or for clients, conducting research to determine strategy direction, creating and implementing campaign content using various communication methods and evaluating campaign success. Not available for supplemental.  
Instruction (3.0)  
Requisite courses: Take DCM-1167 (Required, Previous). Take DCM-1173 (Required, Previous).

**DCM-2261 Professional Media Communication (3 Credits)**

The application of skills necessary in professional presentation for all forms of digital media. Focuses on developing best practices for all forms of public speaking, oral and visual delivery. Topics include announcing and hosting regularly scheduled radio, television and online content, interview strategies for both behind and in front of the camera and microphone, preparing and presenting corporate messaging to the media. Choices include either a journalism or creative/production focus but must include at least one of each. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-1172 (Required, Previous). Take DCM-1159 (Required, Previous). Take DCM-1161 (Required, Previous). Take DCM-2261L (Required, Concurrent).

**DCM-2262 Video Writing and Production II (3 Credits)**

An intermediate level exploration of the writing and production processes required to create short and long-form videos, original news and production content. Focuses on multi and single camera production workflows, working with industry standard production equipment. Opportunities include creative storytelling, reaching a target demographic, capturing details and writing timely video content while meeting a deadline. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-1172 (Required, Previous). Take DCM-1172L (Required, Concurrent).

**DCM-2266 Publishing, Photography and Design II (3 Credits)**

An application of creating content for print and online mediums, taking impactful photographs, as well as using effective layout design principles. Storytelling on a variety of topics, adjusting photos and laying out content using industry-standard software. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-1173 (Required, Previous). Take DCM-2266L (Required, Concurrent).

**DCM-2268 Media Freelancing (1.5 Credits)**

A skills-based approach to develop a freelance media production company business model. Emphasis will be placed on creating a unique media business offering and develop media business practices that will attract, maintain and manage a client base. Application of media product or process development, product pricing and budgeting, pitching media product ideas to a stakeholder group. Successful techniques for resumes and job interviews with media outlets will also be explored. Not available for supplemental.

Instruction (3.0)

**DCM-2269 Audio Writing and Production II (3 Credits)**

An intermediate exploration of writing and production processes and skills required in creating original, short and long-form journalistic and creative audio-based content for radio and online applications. Focuses on developing storytelling and oral presentation, reaching a target audience, accurately capturing information, writing and producing timely stories, creating and scheduling commercial and creative content to deadline. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-1169 (Required, Previous). Take DCM-1150 (Required, Previous). Take DCM-2269L (Required, Concurrent).

**DCM-2278 Social Media and Communications (3 Credits)**

An exploration of appropriate online content creation and social media marketing for a profit or non-profit organization. Various media and strategies will be combined to plan, create and evaluate social media and share effective online content across a variety of platforms directed at target audiences. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take DCM-2258 (Required, Previous).

**DCM-2279 Audio Writing and Production III (1.5 Credits)**

The application of audio skills and concepts in the generation and creation of live and pre-recorded on-air news and hosting for radio station operations. The exploration of oral presentation, creative writing and production for radio and online distribution. Application of live radio hosting and news delivery. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0)

Requisite courses: Take DCM-2269 (Required, Previous).

**DCM-2280 Practicum (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to DCM-2280W.

Requisite courses: Take DCM-1159 (Required, Previous). Take DCM-1167 (Required, Previous). Take DCM-2258 (Required, Previous). Take DCM-2261 (Required, Previous). Take DCM-2262 (Required, Previous). Take DCM-2266 (Required, Previous). Take DCM-2269 (Required, Previous).

**DCM-2282 Video Writing and Production III (1.5 Credits)**

A skills based approach to multi-camera content production of video material for broadcast and online delivery. Application through working in a team environment to produce live and recorded news and sports programming content, working in an industry standard multi-camera studio and in the field with multi-camera mobile broadcast technology. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0)

Requisite courses: Take DCM-2262 (Required, Previous).

**DCM-2284 Advanced Video Writing and Production (3 Credits)**

The application of advanced media writing and production techniques in the creation of original news/information and entertainment/commercial video content. Builds on existing knowledge of content creation and examines different video formats, products and delivery methods.

Application through-working on a team to create a short film, corporate video or commercials, scheduled news production or on-camera experiences in the studio or from the field. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-2262 (Required, Previous). Take DCM-2284L (Required, Concurrent).

**DCM-2286 Publishing, Photography and Design III (1.5 Credits)**

An advanced application of producing media products from initial contact to final distribution channels. Producing visual content in digital and print formats, creating impactful photography and design. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0)

Requisite courses: Take DCM-2266 (Required, Previous).

**DCM-2289 Advanced Audio Writing and Production (3 Credits)**

The application of advanced skills and knowledge required in the preparation and production of short and long-form audio journalism and creative content for radio and online distribution. Builds on existing audio and production knowledge and skills required to produce engaging content. Application through information analysis and dissemination for creative writing and working with sound from multiple sources, editing and mixing of audio. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-2269 (Required, Previous). Take DCM-2289L (Required, Concurrent).

**DCM-2296 Adv Publishing, Photography and Design (3 Credits)**

The application of advanced skills, and knowledge required in writing, publishing, photography and design content creation for print/online mediums for specific industries and standards and interest projects. Application through building on existing knowledge, advanced publishing, photography and design principles. Choices include either a journalism or creative/production focus. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take DCM-2266 (Required, Previous). Take DCM-2296L (Required, Concurrent).

## Early Childhood Education (ECE)

**ECE-1150 Observation and Documentation in ECE (1.5 Credits)**

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)

Requisite courses: Take ECE-1180 (Required, Concurrent).

**ECE-1151 Health, Safety and Nutrition (3 Credits)**

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 Credits)**

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 (1.5), Lab (1.5)

Equivalent to ECE-154.

Requisite courses: Take ECE-1154L (Required, Concurrent).

**ECE-1155 Introduction to Early Childhood Education (3 Credits)**

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. 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 Credits)**

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-1162 Creative Experiences I (3 Credits)**

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-1156 (Required, Previous). Take ECE-1162L (Required, Concurrent). Take ECE-1181 (Required, Concurrent).

**ECE-1168 Children's Outdoor Play (3 Credits)**

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 (1.5 Credits)**

A 15 day (120 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 Integrated Learning (8.0)

Equivalent to ECE-180, ECE-1180W.

Requisite courses: Take ECE-1150 (Required, Concurrent).

**ECE-1181 Practicum II (3 Credits)**

A 33 day (264 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 Integrated Learning (17.0)

Equivalent to ECE-181, ECE-1181W.

Requisite courses: Take ECE-1180 (Required, Previous). Take ECE-1156 (Required, Previous). Take ECE-1162 (Required, Concurrent).

**ECE-2250 Pedagogical Documentation (3 Credits)**

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-2254 Child, Family and Community (3 Credits)**

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 Credits)**

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 Credits)**

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)

**ECE-2260 Infant and Toddler Programming (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-2280 Practicum III (3 Credits)**

A 24 day (192 hours) 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 Integrated Learning (3.0)

Equivalent to ECE-280, ECE-2280W.

**ECE-2281 Practicum IV (3 Credits)**

A 25 day (200 hours) 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 Integrated Learning (3.0)

Equivalent to ECE-281, ECE-2281W.

Requisite courses: Take ECE-2262 (Required, Previous). Take ECE-2264 (Required, Previous). Take ECE-2280 (Required, Previous).

## Economics (ECN)

**ECN-1180 Microeconomics (3 Credits)**

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 (3.0)

Equivalent to ECN-180, ECN-181.

**ECN-2253 Macroeconomics (3 Credits)**

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 (3.0)

Equivalent to ECN-253.

Requisite courses: Take ENG-1159 (Required, Previous).

## Educational Support (EDU)

**EDU-1153 Foundations of Educational Assistance (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Supporting English Language Learners (3 Credits)**

This course will provide theories associated with English Language Learning in children/adolescents. Students will learn techniques for assisting children who are English Language Learners to speak or to listen as well as develop vocabulary/grammatical and phonological skills. The role of the 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 Credits)**

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-2258 Case Studies of Challenging Behaviour (3 Credits)**

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 Credits)**

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. Graded: CR/NCR

Instruction (3.0)

Equivalent to EDU-260.

**EDU-2266 Sensory Impairments (3 Credits)**

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.

## Engineering Design Drafting (EDD)

**EDD-1150 Architectural Design I (3 Credits)**

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. Not available for supplemental.

Instruction (6.0)

Requisite courses: Take CAD-1160 (Required, Previous). Take ENF-1180 (Required, Concurrent).

**EDD-1160 Technical Drawing (1.5 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 (Required, Previous). Take ENF-1166 (Required, Previous).

**EDD-2275 Digital Mapping and Analysis (3 Credits)**

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), Lab (2.0)

Requisite courses: Take SUR-1180 (Required, Previous). Take EDD-2275L (Required, Concurrent).

**EDD-2280 Process Design II (3 Credits)**

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 Credits)**

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 (Required, Previous). Take ENF-2250 (Required, Previous).

**EDD-2290 Civil Design and Drafting (3 Credits)**

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 (Required, Previous). Take ENF-2250 (Required, Previous). Take EDD-2290T (Required, Concurrent).

**EDD-2295 Architectural Design III (3 Credits)**

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 (1.5 Credits)**

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 Integrated Learning (1.5)

Equivalent to EDD-2298W.

## Engineering Fundamentals (ENF)

**ENF-1166 Statics and Strength of Materials (3 Credits)**

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 (5.0)

Requisite courses: Take MTH-1150 (Required, Previous).

**ENF-1170 Engineering Properties I (3 Credits)**

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 Engineering Materials and Construction Practices (3 Credits)**

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 (Required, Concurrent). Take ENF-1180L (Required, Concurrent).

**ENF-2250 Fluid Mechanics (3 Credits)**

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 (4.0)

Equivalent to ENF-1161, ENF-161.

Requisite courses: Take MTH-1150 (Required, Previous).

## English (ENG)

**ENG-0009 English Basics (6 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-1146 Technical Report Writing, CVE Officers (3 Credits)**

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 Credits)**

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-1155, ENG-150, ENG-155.

**ENG-1159 Writing for the Workplace (3 Credits)**

An introduction to effective writing and communication skills for the workplace. Emphasis on creating a variety of writing applications targeting specific audiences and purpose using writing conventions that address not only the workplace but also post-secondary level writing that may include formatting and citation standards such as APA. Effective sentence structure, research, critical thinking, and analytical skills are incorporated into the curriculum. Not available for supplemental.

Instruction (3.0)

Equivalent to ENG-1175, ENG-1133, ENG-1168, ENG-1142, ENG-1154, ENG-1156, ENG-154, ENG-142, ENG-156, ENG-133, ENG-143, ENG-175.

**ENG-1165 Introduction to Creative Writing (3 Credits)**

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.

**ENG-1180 Survey of Canadian Literature (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Indigenous Literature (3 Credits)**

Surveys Indigenous literature of North America, including the forms and genres of traditional storytelling, fiction, poetry, drama, history, autobiography, essay, and oratory. Explores the theory and debates surrounding the production and study of Indigenous literature. Establishes the foundational nature of oral story telling to Indigenous literature. Celebrates the role of stories in shaping Indigenous identity, community and history. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take ENG-1150 or ENG-1190 (Required, Previous).

**ENG-2285 Children's Literature (3 Credits)**

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).

**ENG-2290 Writing for the Screen (3 Credits)**

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).

**ENG-2291 Literary Magazine (3 Credits)**

Build your skills in writing, editing, and publishing volunteering with our student literary magazine. (Work Integrated Learning experience is approximately 80 - 150 hours). Students registering in this course should have successfully completed first year.

Instruction (1.0), Work Integrated Learning (10.0)

Requisite courses: Take ENG-1165 ENG-1185 or ENG-2290 (Required, Previous). Take ENG-2291W (Required, Concurrent).

## English As a Second Language (ESL)

**ESL-0035 ESL Grammar Level 1 (3 Credits)**

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-0045 ESL Grammar Level 2 (3 Credits)**

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-0055 ESL Grammar Level 3 (3 Credits)**

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 Credits)**

Upon completion of this course, it is expected that the reader can understand and get some 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 Credits)**

Upon completion of this course, it is expected that the writer can write basic personal identification information, words, simple phrases, and a few simple sentences about highly familiar information related to immediate needs. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (5.0)

**ESL-0065 ESL Grammar Level 4 (3 Credits)**

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)

**ESL-0066 ESL Reading Level 4 (3 Credits)**

Upon completion of this course, it is expected that the reader can understand and get most 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 Credits)**

Upon completion of this course, it is expected that 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 Credits)**

Upon completion of this course, it is expected that the speaker can communicate information about common everyday activities, experiences, wants and needs. As well, the listener can understand, with considerable effort, simple formal and informal communication on topics of personal relevance. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (5.0)

**ESL-0075 ESL Grammar Level 5 (3 Credits)**

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 Credits)**

Upon completion of this course, it is expected that the reader can understand simple and some 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 Credits)**

Upon completion of this course, it is expected that 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 experience. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (5.0)

**ESL-0078 ESL Communication Level 5 (3 Credits)**

Upon completion of this course, it is expected that the speaker can communicate with some effort in short, routine social situations, and present concrete information about needs and familiar topics of personal relevance. As well, the listener can understand, with some effort, the gist of moderately complex, concrete formal and informal communication. Not eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (5.0)

**ESL-0085 ESL Grammar Level 6 (3 Credits)**

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 Credits)**

Upon completion of this course, it is expected that the reader can understand most moderately complex texts in less predictable but relevant social, educational and work-related situations. Not eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (5.0)

**ESL-0087 ESL Writing Level 6 (3 Credits)**

Upon completion of this course, it is expected that 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 Credits)**

Upon completion of this course, it is expected that the speaker can communicate with some confidence in routine social situations, and present concrete information in some detail about needs and familiar topics of personal relevance. As well, the listener can understand most moderately complex formal and informal communication, including some abstract concepts and ideas related to life experience. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (5.0)

**ESL-0095 ESL Grammar Level 7 (3 Credits)**

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 Credits)**

Upon completion of this course, it is expected that 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 Credits)**

Upon completion of this course, it is expected that 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 experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0)

**ESL-0098 ESL Communication Level 7 (3 Credits)**

Upon completion of this course, it is expected that the speaker can communicate with some confidence in many daily routine social, educational, and work situations, and present concrete information on an expanding range of familiar topics. As well, the listener can understand most moderately complex formal and informal communication, including some abstract concepts and ideas related to general knowledge and life experience. Not available for supplemental. Not eligible for Prior Learning Assessment. Instruction (5.0)

## English for Academic Purposes (EAP)

**EAP-0096 Academic Writing (6 Credits)**

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.

**EAP-0097 Academic Communication (3 Credits)**

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.

**EAP-0098 Academic Reading (3 Credits)**

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.

**EAP-1101 English for Academic Purposes (6 Credits)**

Instruction (3.0)  
Equivalent to EAP-101.

**EAP-1102 English for Academic Purposes (3 Credits)**

Instruction (3.0)

**EAP-1103 English for Academic Purposes (3 Credits)**

Instruction (3.0)

**EAP-1104 English for Academic Purposes (3 Credits)**

Instruction (3.0)

**EAP-1105 English for Academic Purposes (3 Credits)**

Instruction (3.0)

**EAP-1106 English for Academic Purposes (3 Credits)**

Instruction (3.0)

## Environmental Science (ENV)

**ENV-2265 Parks and Recreation Operations (3 Credits)**

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 Credits)**

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 Credits)**

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 (Required, Previous). Take RRM-2256 (Required, Previous). Take ENV-2290L (Required, Concurrent).

**ENV-3355 Environmental Quality (3 Credits)**

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 occurred and solutions to these changes. Instruction (3.0)  
Equivalent to ENV-355.



**ENV-3372 Environmental Policy (3 Credits)**

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 Credits)**

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 Soil Physics (3 Credits)**

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 SOL-1150 or RRM-2253 (Required, Previous).

Take ENV-3383L (Required, Concurrent).

**ENV-3397 Environmental Assessment and Auditing (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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).

**ENV-4453 Stream Reclamation and Remediation (3 Credits)**

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).

## Exercise (EXS)

**EXS-1159 Exercise and Healthful Living (3 Credits)**

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-1159, PED-159.

Requisite courses: Take EXS-1159L (Required, Concurrent).

**EXS-1178 Resistance Training (3 Credits)**

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)

Equivalent to PED-1178.

**EXS-1188 Movement Education (3 Credits)**

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-1188, PED-188.

Requisite courses: Take EXS-1159 (Required, Previous). Take EXS-1178 (Required, Previous).

**EXS-2252 Research Methods in Kinesiology (3 Credits)**

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-2252, PED-252.

**EXS-2256 Prevention and Care of Athletic Injuries (3 Credits)**

An overview of the scope of practice and best practices in the prevention and care of athletic injuries. Includes the theory and practice of therapeutic exercise. Lab activities provide practical experiences to parallel the theory component. Not available for supplemental.

Instruction (3.0)

Equivalent to PED-2256, PED-256.

Requisite courses: Take BIO-1169 (Required, Previous).

**EXS-2258 Practicum (3 Credits)**

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. Not available for supplemental.

Work Integrated Learning (3.0)

Equivalent to PED-2258, PED-258, EXS-2258W.

Requisite courses: Take EXS-2256 (Required, Previous). Take EXS-2262 (Required, Previous). Take EXS-2267 (Required, Previous). TAKE COM-1162 (Required, Previous). Take EXS-2259 (Required, Concurrent).

**EXS-2259 Exercise Program Design (3 Credits)**

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-2259, PED-259.

Requisite courses: Take EXS-1188 (Required, Previous). TAKE EXS-2262 (Required, Previous). TAKE EXS-2267 (Required, Previous).

**EXS-2260 Biomechanics and Applied Kinesiology (3 Credits)**

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-2260, PED-260.

Requisite courses: Take BIO-1169 (Required, Previous).

**EXS-2261 Adapted Physical Activity (3 Credits)**

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)

Equivalent to PED-2261.

Requisite courses: Take EXS-1159 (Required, Previous). Take EXS-2252 (Required, Previous).

**EXS-2262 Exercise Physiology (3 Credits)**

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. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Equivalent to PED-2262, PED-262, PED-255.

Requisite courses: Take BIO-1169 (Required, Previous). TAKE BIO-1180 (Required, Previous). Take EXS-2252 (Required, Previous). Take EXS-2262L (Required, Concurrent).

**EXS-2267 Fitness Assessment (3 Credits)**

Development of the student's theoretical knowledge and practical skills in health-related fitness assessment and lifestyle counseling is the main focus on this course. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Equivalent to PED-2267, PED-267, PED-265.

Requisite courses: Take BIO-1169 (Required, Previous). Take EXS-2252 (Required, Previous). Take EXS-2267L (Required, Concurrent).

**EXS-2271 Advanced Conditioning (3 Credits)**

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-2271, PED-271.

Requisite courses: Take EXS-1178 (Required, Previous). Take EXS-2262 (Required, Previous).

**EXS-2274 Exercise and Chronic Conditions (3 Credits)**

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)

Equivalent to PED-2274.

Requisite courses: Take EXS-2262 (Required, Previous). Take EXS-2267 (Required, Previous).

## Fieldwork (FWK)

**FWK-1125 Automotive Field Work (1.5 Credits)**

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 Integrated Learning (1.5)

Equivalent to FWK-125, FWK-1125W.

Requisite courses: Take AST-1116 (Required, Previous). Take AST-1122 (Required, Previous).

**FWK-1160 Field Placement I (1.5 Credits)**

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. Graded: CR/NCR

Work Integrated Learning (1.5)

Equivalent to FWK-160, FWK-1160W.

**FWK-1163 Field Placement II (1.5 Credits)**

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. Graded: CR/NCR

Work Integrated Learning (1.5)

Equivalent to FWK-163, FWK-1163W.

Requisite courses: Take FWK-1160 (Required, Previous).

**FWK-2253 Managed Internship (3 Credits)**

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. Not available for supplemental.

Work Integrated Learning (3.0)

Equivalent to FWK-253, FWK-2253W.

Requisite courses: Take CMM-2291 (Required, Previous).

**FWK-2260 Field Placement III (1.5 Credits)**

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. Graded: CR/NCR

Work Integrated Learning (1.5)

Equivalent to FWK-260, FWK-2260W.

**FWK-2262 Field Placement IV (1.5 Credits)**

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. Graded: CR/NCR

Work Integrated Learning (1.5)

Equivalent to FWK-262, FWK-2262W.

Requisite courses: Take FWK-2260 (Required, Previous).

**FWK-2272 Corrections Practicum I (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to FWK-2280, FWK-2272W, FWK-2280W, FWK-2273, CJP-2252, FWK-272, FWK-273, CJP-272, CJP-273.

**FWK-2273 Corrections Practicum II (3 Credits)**

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-2280, FWK-2272W, FWK-2280W, FWK-2272, CJP-2252, FWK-272, FWK-273, CJP-272, CJP-273.

**FWK-2280 Field Work Practicum (3 Credits)**

This course provides an opportunity for students to identify, experience, and examine real world problems that are existent in their communities. Through work integrated learning, students will work together with community stakeholders who are responsible for dealing with these complex issues and ensuring the safety of their communities. The student will be able to develop the skills, knowledge and attitudes necessary to become successful in their chosen field. Students should note that a practicum placement may require the student to work various shifts that may occur through day, afternoon and evenings. Not available for supplemental.

Work Integrated Learning (5.0)

Equivalent to FWK-2272W, FWK-2280W, FWK-2272, FWK-2273, CJP-2252, FWK-272, FWK-273, CJP-272, CJP-273.

**FWK-2283 Industry Placement (3 Credits)**

Students will apply intermediate theoretical and course-based content by combining classroom learning with concurrent industry placements while gaining valuable work-integrated learning.

Instruction (1.0), Work Integrated Learning (10.0)

Requisite courses: Take ACC-1175 (Required, Previous). Take BUS-1170 (Required, Previous). Take MKT-1188 (Required, Previous). Take FWK-2283W (Required, Concurrent).

**FWK-2284 Industry Placement II (3 Credits)**

A capstone placement during which students will apply theoretical and course-based content by combining classroom learning with industry placements while gaining valuable work-integrated learning. (Approximately 120-150 hours)

Instruction (1.0), Work Integrated Learning (10.0)

Requisite courses: Take FWK-2283W (Required, Previous). Take FWK-2284W (Required, Concurrent).

## Geography (GEO)

**GEO-1152 Geomatics Engineering Science (3 Credits)**

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 (2.0)

Requisite courses: Take GEO-1181 (Required, Concurrent). Take GEO-1152L (Required, Concurrent).

**GEO-1165 Geographic Information Systems (3 Credits)**

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 Credits)**

An introduction to the study of physical geology through the exploration of the dynamic forces that shape the Earth. 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 Credits)**

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 (2.0), Lab (2.0)

Requisite courses: Take CAD-1160 (Required, Previous). Take GEO-1152 (Required, Concurrent). Take GEO-1181L (Required, Concurrent).

**GEO-1185 Geodetic Fundamentals (3 Credits)**

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 Credits)**

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 (Required, Previous). Take GEO-1181 (Required, Previous).

**GEO-2280 Geographic Information Systems II (3 Credits)**

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 Credits)**

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 (1.5 Credits)**

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 Integrated Learning (1.5)

Equivalent to GEO-2298W.

**GEO-3376 Advanced Geographic Information Systems (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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).

## Health (HTH)

**HTH-1121 Health Administration (1.5 Credits)**

An overview of basic operations in a health care setting and how various departments and systems work together. Focus will be on health care structure, personal management skills in multi-disciplinary teams, and understanding of role and functions in an organization. Not available for supplemental.

Instruction (2.0)

Equivalent to HTH-121.

**HTH-1125 Patients' Records/Transcribing Orders (3 Credits)**

An introduction to the Unit Clerk's basic responsibilities for patient records and transcribing orders. Topics will include processing, communicating and documenting physicians' orders and patient records by identifying information from basic medical records, the appropriate application of medical terminology, and awareness and use of common abbreviations in these processes. Not available for supplemental.

Instruction (3.0)

Equivalent to HTH-125.

**HTH-1142 Medical Order Entry (3 Credits)**

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 Credits)**

A culminating course comprised of a 95-hour practicum, this provides 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 Integrated Learning (3.0)

Equivalent to HTH-1131, HTH-131, HTH-1143W.

Requisite courses: Take COM-1162 (Required, Previous). Take CPU-1151 (Required, Previous). Take CSP-1150 (Required, Previous). Take ENG-1142 (Required, Previous). Take HTH-1121 (Required, Previous). Take HTH-1125 (Required, Previous). Take HTH-1142 (Required, Previous).

## Health Care Aide (HCA)

**HCA-1103 Assist With Medication Delivery (1.5 Credits)**

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 (1.5 Credits)**

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 Credits)**

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 (1.5 Credits)**

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 (Required, Previous). Take HCA-1105 (Required, Previous). Take HCA-1114 (Required, Previous). Take HCA-1116 (Required, Previous).

**HCA-1112 Safe Work Practices (3 Credits)**

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 (1.5 Credits)**

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 Credits)**

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).

**HCA-1115 Assist With Activities of Daily Living (3 Credits)**

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 Credits)**

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).

**HCA-1130 Health Care Aide Role and Responsibility (3 Credits)**

During this course, you will focus on the role and responsibilities of a health care aide working in a variety of employment settings. The focus on this course is to share information that will result in safe, ethical, and respectful care based on the needs of the client. Care that meets these standards is known as person-centred care. To meet the goal of person-centred care, the health care aide must be familiar with the provincial legislation that guides safe, ethical, and personalized care. In addition, knowledge of how to work as part of the health-care team is essential, as is the ability to follow your employer's policy and procedures and your job description. The HCA is responsible for identifying, managing, and preventing potential environmental hazards in facilities and community-based settings and focusing on the client's safety as well as your own safety in different settings. Not available for supplemental.

Instruction (2.5), Lab (0.5)

Requisite courses: Take HCA-1131 (Required, Concurrent). Take HCA-1132 (Required, Concurrent). Take HCA-1133 (Required, Concurrent). Take HCA-1130L (Required, Concurrent). Take HCA-1134W (Required, Concurrent).

**HCA-1131 The Human Body, Health and Chronic Illness (3 Credits)**

In this course, you will study the systems that make up the human body and discuss the milestones of growth and development across a lifetime. You will read about and discuss the most common of the chronic illnesses that you may encounter, and you will learn how to provide safe care based on evidence-informed practices according to the clients' diagnoses, needs, and care plans. The information learned in this course will provide you with care strategies to support the client and the client's family through the process of a client's dying and death. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take HCA-1130 (Required, Concurrent). Take HCA-1132 (Required, Concurrent). Take HCA-1133 (Required, Concurrent). Take HCA-1134W (Required, Concurrent).

**HCA-1132 Communication and Documentation in the Health Care Environment (3 Credits)**

This course will focus on the role and responsibilities of the health care aide when communicating effectively as a member of the collaborative care team. Strong communication skills are an important part of being a successful health care aide. The health-care environment requires competent verbal, written, and electronic communication skills, which are part of digital literacy. This course will focus on professional communication with other team members, clients, and client's families; written communication, including documentation in client records and report completion; problem-solving strategies; and handling conflict successfully. A focus on communicating effectively with clients from all cultures while demonstrating cultural competence and understanding the diversity of individuals will be included. Communication strategies for overcoming the challenges and barriers to communication between the client and caregiver caused by disease, illness, and aging in the client will also be discussed. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Requisite courses: Take HCA-1130 (Required, Concurrent). Take HCA-1131 (Required, Concurrent). Take HCA-1133 (Required, Concurrent). Take HCA-1132L (Required, Concurrent). Take HCA-1134W (Required, Concurrent).

**HCA-1133 Providing Person-Centered Care and Comfort (6 Credits)**

In this course, the learner will learn to support clients to maintain their independence and meet their care needs according to individual care plans. The learner will acquire the skills and knowledge needed to assist clients with daily grooming and hygiene and to assist clients to walk and use mobility aids and wheel chairs safely. The learner will learn several methods for carrying out client lifts and transfers, with a focus on client safety and comfort. Upon completion of the course, the learner will have an excellent baseline knowledge of standards for meeting client nutritional needs and strict guidelines in safe food handling as set out in a minimum provincial expectations. Not available for supplemental.

Instruction (2.0), Lab (3.0)

Requisite courses: Take HCA-1130 (Required, Concurrent). Take HCA-1131 (Required, Concurrent). Take HCA-1132 (Required, Concurrent). Take HCA-1133L (Required, Concurrent). Take HCA-1134W (Required, Concurrent).

**HCA-1134 Clinical Placement I (3 Credits)**

Under the direction of a regulated health-care professional, learners will work in a continuing care setting, such as supportive living, designated supportive living (DSL), senior lodges, long term care, or group homes, providing person-centred care and support for clients and their families. Not available for supplemental.

Work Integrated Learning (2.0)

Equivalent to HCA-1134W.

Requisite courses: Take HCA-1130 (Required, Concurrent). Take HCA-1131 (Required, Concurrent). Take HCA-1132 (Required, Concurrent). Take HCA-1133 (Required, Concurrent).



**HCA-1135 Meeting Complex Care Needs (6 Credits)**

This course builds on the foundational skills and concepts introduced in previous courses and also introduces new skills to the learner. Learners will have the opportunity to acquire the knowledge to learn advanced skills such as active and passive range-of-motion exercises, wound care, tube feeds, catheter care, ostomy care, specimen collection, and respiratory care. In addition, accurate measurement of vital signs is demonstrated, practised, and assessed. This course will also assist learners to work safely within the legal roles and responsibilities of health care aides in the province while providing medication assistance. This course is included in the HCA Preparation for Employment provincial standard. Not available for supplemental.

Instruction (1.5), Lab (3.5)

Requisite courses: Take HCA-1130 (Required, Previous). TAKE HCA-1131 (Required, Previous). TAKE HCA-1132 (Required, Previous). TAKE HCA-1133 (Required, Previous). Take HCA-1134 (Required, Previous). Take HCA-1136 (Required, Concurrent). Take HCA-1135L (Required, Concurrent). Take HCA-1137W (Required, Concurrent). Take HCA-1138W (Required, Concurrent).

**HCA-1136 Special Activities for Clients With Various Health Conditions (6 Credits)**

A central feature of this course is the extensive section on meeting the care and comfort needs of clients with a diagnosis of dementia. Learners also learn about care strategies for assisting other diverse client groups such as clients with a mental health diagnosis and clients with developmental delays and physical disabilities. Health care aides employed by home care agencies may have the opportunity to provide care for infants and children, as well as caring for clients living with life-limiting illness, and who could benefit from hospice, palliative and end-of-life care. The course provides the information and skills needed to assist with these care assignments. Not available for supplemental.

Instruction (3.5), Lab (1.5)

Requisite courses: Take HCA-1130 (Required, Previous). TAKE HCA-1131 (Required, Previous). TAKE HCA-1132 (Required, Previous). TAKE HCA-1133 (Required, Previous). TAKE HCA-1134 (Required, Previous). Take HCA-1135 (Required, Concurrent). TAKE HCA-1136L (Required, Concurrent). Take HCA-1137W (Required, Concurrent). Take HCA-1138W (Required, Concurrent).

**HCA-1137 Clinical Placement II (6 Credits)**

Under the direction of a regulated health-care professional, learners will work in a health-care setting such as continuing care or acute care, providing person-centred care and support for clients and their families. Not available for supplemental.

Work Integrated Learning (4.0)

Equivalent to HCA-1137W.

Requisite courses: Take HCA-1130 (Required, Previous). TAKE HCA-1131 (Required, Previous). TAKE HCA-1132 (Required, Previous). TAKE HCA-1133 (Required, Previous). TAKE HCA-1134 (Required, Previous). Take HCA-1135 (Required, Concurrent). TAKE HCA-1136 (Required, Concurrent). Take HCA-1138W (Required, Concurrent).

**HCA-1138 Consolidated Clinical Placement (3 Credits)**

Under the direction of a regulated health-care professional, and buddied with an unregulated health-care professional, students will work in a variety of health-care settings such as continuing care or acute care, providing person-centred care and support for clients and their families. Not available for supplemental. Not eligible for Prior Learning Assessment.

Work Integrated Learning (2.0)

Equivalent to HCA-1138W.

Requisite courses: Take HCA-1130 (Required, Previous). TAKE HCA-1131 (Required, Previous). TAKE HCA-1132 (Required, Previous). TAKE HCA-1133 (Required, Previous). TAKE HCA-1134 (Required, Previous). Take HCA-1135 (Required, Concurrent). TAKE HCA-1136 (Required, Concurrent). TAKE HCA-1137 (Required, Concurrent).

## History (HIS)

**HIS-1170 Western Civilization (3 Credits)**

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 Credits)**

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 Credits)**

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).

## Human Service Practice (HSP)

**HSP-1151 Family Systems and Development (3 Credits)**

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 Functional Assessment (3 Credits)**

An application of the theory of the function of behaviour for individuals impacted by developmental delays from an ecological perspective.

Topics will include functional behaviour assessment, motivations of behaviour, behaviour as communication, creating and implementing strategies to decrease challenging behaviour, and proactive approaches to supporting positive behaviour. Not available for supplemental.

Instruction (3.0)

# Humanities (HUM)

## HUM-1150 Logic (3 Credits)

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 Credits)

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.

## HUM-1156 Business Ethics (1.5 Credits)

An introduction to Business Ethics examining the ethics of business activity: advertising, corporate social responsibility (CSR), globalization, human resources, code of conduct, conflict of interest. Not available for supplemental.

Instruction (1.5)

## HUM-1158 Creative Problem-Solving (3 Credits)

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-1180 Introduction to World Religions (3 Credits)

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 Credits)

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-2281 Christianity (3 Credits)

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 Credits)

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).

## HUM-2291 Film Studies (3 Credits)

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, auteurism, 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-3350 Ethics in Justice (3 Credits)

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 Credits)

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 Credits)**

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)

## Independent Study (IND)

**IND-1151 Independent Study (1.5 Credits)**

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 Credits)**

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-2253 Independent Study (3 Credits)**

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 (1.5 Credits)**

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.

## Indigenous Studies (INS)

**INS-1150 Exploring Indigenous Perspectives (3 Credits)**

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.

Instruction (3.0)

Equivalent to NAT-1150.

**INS-1155 Introduction to Indigenous Studies (3 Credits)**

An introduction to Indigenous culture and histories 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 Indigenous People or for increasing an individual's general understanding and sensitivity toward the Indigenous perspective. Not available for supplemental.

Instruction (3.0)

Equivalent to NAT-1155, NAT-155.

## Interior Design (IDM)

**IDM-1155 Professional Practice (3 Credits)**

A detailed exposition to a variety of design topics and areas of expertise. Immersive and spatial industries are studied and examined as they relate to human behavior, design assessment, business and economy. Students produce an extensive range of projects and proposals showcasing their broad understanding in a variety of design-related fields. Not available for supplemental.

Instruction (3.0)

Equivalent to IDM-155.

**IDM-1158 Representations I (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-158, IDM-154.

Requisite courses: Take IDM-1158T (Required, Concurrent).

**IDM-1159 Digital Ideation (3 Credits)**

A digital drawing foundations class that utilizes a variety of digital tools, modeling software and tablet illustration applications to communicate design ideas, textures, materials and spatial elements integral to the design process. Not available for supplemental.

Instruction (3.0)

Equivalent to IDM-159, IDM-156.

Requisite courses: Take IDM-1158 (Required, Previous).

**IDM-1163 Design History I (3 Credits)**

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 Credits)**

An introduction to detailing and residential construction. Manual and digital drafting skills are developed with a focus on scaled plotting, 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 work drawings and related construction documents including floor plans, elevations, sections and schedules. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-167, IDM-166.

Requisite courses: Take IDM-1167L (Required, Concurrent). Take IDM-1167T (Required, Concurrent).

**IDM-1170 Colour and Lighting (3 Credits)**

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.

**IDM-1173 Design History II (3 Credits)**

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 Credits)**

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 in a digital environment. Space, form, and context are analyzed and applied to various design challenges utilizing fundamental industry design software and digital applications. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-179.

Requisite courses: Take IDM-1179L (Required, Concurrent). Take IDM-1179T (Required, Concurrent).

**IDM-1181 Residential Design Studio (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-181, IDM-180.

Requisite courses: Take IDM-1179 (Required, Previous). Take IDM-1181L (Required, Concurrent). Take IDM-1181T (Required, Concurrent).

**IDM-1190 Digital Drafting (3 Credits)**

An introduction to various digital drafting software used in design and architectural 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 (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-190.

Requisite courses: Take IDM-1190L (Required, Concurrent). Take IDM-1190T (Required, Concurrent).

**IDM-2255 Materials and Finishes (3 Credits)**

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 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-267.

Requisite courses: Take IDM-1167 (Required, Previous). Take IDM-1167L (Required, Concurrent). Take IDM-1167T (Required, Concurrent).

Take IDM-2267 (Required, Concurrent). Take IDM-2267T (Required, Concurrent).

**IDM-2275 Digital Modelling and Animation (3 Credits)**

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 Credits)**

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-2290 (Required, Previous).

**IDM-2277 Practicum (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to IDM-2277W.

Requisite courses: Take IDM-1170 (Required, Previous). Take IDM-1181 (Required, Previous). Take IDM-1190 (Required, Previous). Take IDM-2255 (Required, Previous).



**IDM-2278 Corporate Design Studio (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take IDM-1181 (Required, Previous). Take IDM-1190 (Required, Previous). Take IDM-2278L (Required, Concurrent). Take IDM-2278T (Required, Concurrent).

**IDM-2279 Global Design Trends (3 Credits)**

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 Credits)**

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 (2.0), Lab (2.0), Tutorial (2.0)

Equivalent to IDM-287, IDM-284.

Requisite courses: Take IDM-1181 (Required, Previous). Take IDM-2290 (Required, Previous). Take IDM-2287L (Required, Concurrent). Take IDM-2287T (Required, Concurrent).

**IDM-2290 Bldg Information Modeling (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Equivalent to IDM-290.

Requisite courses: Take IDM-1190 (Required, Previous).

## Irrigation (IRR)

**IRR-1152 Introduction to Irrigation (3 Credits)**

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 Irrigation Systems (3 Credits)**

A comparison of the operation, maintenance, and design of common irrigation systems including soil water balance and irrigation scheduling.

Instruction (3.0), Lab (2.0)

Equivalent to IRR-252.

Requisite courses: Take SOL-1150 (Required, Previous). Take BIO-1167; (Required, Previous). Take IRR-2252L (Required, Concurrent).

**IRR-3350 Irrigation Management (3 Credits)**

An explanation of irrigation management including monitoring, system design, response to variable water requirements and maximizing sustainable profitability.

Instruction (3.0), Lab (2.0)

Requisite courses: Take IRR-2252 (Required, Previous). Take IRR-3350L (Required, Concurrent).

**IRR-4450 Irrigation Technology (3 Credits)**

A study of current precision agriculture irrigation equipment technology, its function and maintenance, potential, and application in providing agronomic recommendations.

Instruction (3.0), Lab (2.0)

Requisite courses: Take AGS-3385 (Required, Previous). Take IRR-3350 (Required, Previous). Take IRR-4450L (Required, Concurrent).

## Justice Studies (JUS)

**JUS-3350 Victimology (3 Credits)**

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 JUS-3363, COR-3350, COR-350.

**JUS-3351 Introduction to Research Methods in Justice (3 Credits)**

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)

**JUS-3352 Social Justice (3 Credits)**

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)

Equivalent to JUS-3362.

**JUS-3357 Contemporary Youth Justice in Canada (3 Credits)**

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 and Culture in Justice (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-4462.

**JUS-3387 Crisis Management (3 Credits)**

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 Directed Field Studies (1.5 Credits)**

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.

Instruction (1.5)

**JUS-4450 Directed Topics in Criminal Justice (3 Credits)**

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 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4452W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4453 Policies and Procedures in Justice (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4453W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4454 Applied Conflict Management (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4454W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4455 Comparative Justice Systems (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to COR-4455, COR-455, JUS-4455W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4457 Community Involvement for Professionals (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to COR-4457, COR-457, JUS-4457W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4461 Identified Population Study (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to COR-4461, COR-461, JUS-4461W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4464 Applied Research 1 (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4464W, RSR-4460.

Requisite courses: Take JUS-3351, JUS-3388 (Required, Previous).

**JUS-4465 Diversity Seminar (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4465W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4468 Applied Research 2 (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4468W, RSR-4462.

Requisite courses: Take JUS-4464 (Required, Previous).

**JUS-4469 Program Development and Management (3 Credits)**

An application and evaluation of program development and management skills. DFS environment is required. Not available for supplemental.

Work Integrated Learning (3.0)

Equivalent to JUS-4469W.

Requisite courses: Take JUS-3351 (Required, Previous). Take JUS-3369 (Required, Previous). Take JUS-3388 (Required, Previous).

**JUS-4474 Safety in the Justice Environment (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to COR-4474, COR-474, JUS-4474W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4475 Critical Incident Analysis (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to COR-4475, COR-475, JUS-4475W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4480 Community Relationship Analysis (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4480W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4481 Strategic Planning/Project Management (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4481W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4482 Human Resources Management Justice Organizations (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4482W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4483 Applied Leadership Justice Organizations (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4483W.

Requisite courses: Take JUS-3388 (Required, Previous).

**JUS-4484 Financial Management in Justice Organizations (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to JUS-4484W.

Requisite courses: Take JUS-3388 (Required, Previous).

## Keyboarding (KEY)

**KEY-1140 Document Processing (3 Credits)**

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 (3.0)

Equivalent to KEY-140.

## Language Arts (LAR)

**LAR-1130 College Reading and Writing (3 Credits)**

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 Credits)**

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 Credits)**

An introduction to the Canadian legal system and sources of natural resource law. Focus is on history of natural resource law, powers of officers, the Charter of Rights and Freedoms and using the Criminal Code. Not available for supplemental.

Instruction (5.0)

Equivalent to LAW-161.

### **LAW-1167 Criminal Procedural Law (3 Credits)**

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-1177.

### **LAW-1172 Law for Corrections (3 Credits)**

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 Credits)**

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-1178, LAW-176.

Requisite courses: Take LAW-1167 (Required, Previous).

### **LAW-1177 Procedural Law in Canada (3 Credits)**

An exploration of the Criminal Code, Corrections and Conditional Release Act and other Federal Statutes focusing on statute law, including interpreting, understanding and applying criminal procedural requirements. The Criminal Code, Corrections and Conditional Release Act, Controlled Drugs and Substances Act, and the Charter of Rights and Freedoms are examined with emphasis on offence classification, arrest, release, use of force, and self defence provisions. Case law will also be reviewed to emphasize the materials covered. Not available for supplemental.

Instruction (3.0)

Equivalent to LAW-1167, LAW-1166, LAW-166.

### **LAW-1178 Criminal and Correctional Offences (3 Credits)**

An in-depth analysis and application of criminal offences including the statutory provisions, elements of the offence, relevant case law, and pertinent Acts and Regulations. The most common criminal offences as identified by current data are studied. Not available for supplemental.

Instruction (3.0)

Equivalent to LAW-1176, LAW-176.

Requisite courses: Take LAW-1177 (Required, Previous).

### **LAW-2254 Applied Law (3 Credits)**

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 Credits)**

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).

## Management (MGT)

### **MGT-3370 Management in Justice Organizations (3 Credits)**

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 Credits)**

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.

## Marketing (MKT)

### **MKT-1152 Commodity Marketing (3 Credits)**

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-1188 Introduction to Marketing (3 Credits)**

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 (3.0)

Equivalent to MKT-188.

### **MKT-2260 International Marketing (3 Credits)**

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-2279 Applied Sales (3 Credits)**

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).

## Massage Therapy (MAS)

### **MAS-1122 Practicum I (1.5 Credits)**

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.

Instruction (1.5)

Equivalent to MAS-122.

### **MAS-1125 Practicum II (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to MAS-1125W.

Requisite courses: Take MAS-1122 (Required, Previous).

### **MAS-1130 Pathology (3 Credits)**

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 Credits)**

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 (Required, Concurrent). Take BIO-1160 (Required, Concurrent).

### **MAS-1152 Professional Practices Massage Therapy (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Integrated Learning (3.0)

Equivalent to MAS-255, MAS-124, MAS-2255W.

Requisite courses: Take MAS-1125 (Required, Previous).

**MAS-2257 Massage Techniques II (3 Credits)**

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 Credits)**

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 Credits)**

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 Integrated Learning (3.0)

Equivalent to MAS-259, MAS-2259W.

Requisite courses: Take MAS-2255 (Required, Previous).

**MAS-2260 Special Populations II (3 Credits)**

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-2262 Integrated Practices in Massage Therapy (3 Credits)**

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 (Required, Previous). TAKE MAS-1152 (Required, Previous). TAKE MAS-2255 (Required, Previous).

## Mathematics (MTH)

**MTH-0009 Mathematics 0009 (6 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-1130 Basic College Mathematics (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

This course covers functions, limits, derivatives, and extreme problems, definite integral, differentiation and integration of rational functions. Not available for supplemental examination.

Instruction (3.0)

Equivalent to MTH-156.

**MTH-1160 Calculus I (3 Credits)**

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. Students registering in this course should have successfully completed MTH 30 and MTH 31 or equivalent. Not available for supplemental.

Instruction (3.0)

Equivalent to MTH-160, MTH-154.

**MTH-1165 Calculus II (3 Credits)**

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).

**MTH-1170 Engineering Math II (3 Credits)**

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).

## Multi-Media (CMM)

**CMM-1153 Digital Audio (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to CMM-153, CMM-155.

**CMM-1156 Digital Video (3 Credits)**

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. Not available for supplemental.

Instruction (4.0)

Equivalent to CMM-156.

**CMM-1163 Scripting for Multimedia and the Web (3 Credits)**

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. Not available for supplemental.

Instruction (4.0)

Equivalent to CMM-163.

**CMM-1165 Coding With Web Standards (3 Credits)**

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. Not available for supplemental.

Instruction (5.0)

Equivalent to CMM-165.

Requisite courses: Take CMM-1163 (Required, Previous).

**CMM-1185 The Principles of Animation (3 Credits)**

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. Not available for supplemental.

Instruction (4.0)

Equivalent to CMM-185, CMM-275.

**CMM-2284 Professional Portfolio (3 Credits)**

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. Not available for supplemental.

Instruction (6.0)

Requisite courses: Take CMM-2288 (Required, Previous). Take RSR-2270 (Required, Previous).

**CMM-2285 3D Modeling and Animation With Maya (3 Credits)**

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 Credits)**

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. Not available for supplemental.

Instruction (5.0)

Equivalent to CMM-288, CMM-277.

Requisite courses: Take CMM-1165 (Required, Previous).

**CMM-2291 Professional Foundations (3 Credits)**

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. Not available for supplemental.

Instruction (6.0)

Equivalent to CMM-291.

**CMM-2292 Proseminar (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to CMM-292.

Requisite courses: Take CMM-2291 (Required, Previous).

**CMM-2293 Capstone Project (3 Credits)**

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. Not available for supplemental.

Instruction (6.0)

Equivalent to CMM-293.

Requisite courses: Take CMM-2291 (Required, Previous). Take RSR-2270 (Required, Previous).

**CMM-2295 Telling Stories II: Script to Screen (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to CMM-295.

Requisite courses: Take ENG-2290 (Required, Previous).

## Music (MUS)

**MUS-1150 Music Appreciation (3 Credits)**

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.

## Native Studies (NAT)

**NAT-2250 Aboriginal Education for Professional Engagement (3 Credits)**

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)

## Nursing (NSG)

**NSG-1155 Concepts of Health: Individuals/Families (3 Credits)**

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 (Required, Previous). Take NSG-1168 (Required, Previous). Take NSG-1173 (Required, Concurrent).

**NSG-1163 Introduction to Nursing Practice (6 Credits)**

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 Introduction to Nursing and Concepts of Health (3 Credits)**

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 Credits)**

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 (Required, Previous). Take NSG-1168 (Required, Previous). Take BIO-1160 (Required, Previous). Take NSG-1155 (Required, Concurrent). Take NSG-1173L (Required, Concurrent).

**NSG-1181 Nursing Concepts: Individuals and Families (6 Credits)**

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 Introduction to Nursing: Assessment and Practice (6 Credits)**

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-1400 Becoming a Nurse (3 Credits)**

An exploration of the disciplinary knowledge base of nursing including an emphasis on multiple ways of knowing that inform the art and science of nursing. Includes an examination of the foundational concepts of nursing as a self-regulating profession, and an introduction to self as a member of the professional nursing community.

Instruction (3.0)

Requisite courses: Take NSG-1410 (Required, Concurrent). Take NSG-1420 (Required, Concurrent).

**NSG-1410 Personal Health and Wholeness (3 Credits)**

Critical exploration of concepts of health and wholeness from a personal perspective and as an emerging professional. Exploration of principles, practices and issues relating to health with a particular emphasis on building self awareness and resilience. Incorporates further knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high quality nursing care.

Instruction (3.0), Lab (1.0)

Requisite courses: Take NSG-1400 (Required, Concurrent). Take NSG-1420 (Required, Concurrent). Take NSG-1410L (Required, Concurrent).

**NSG-1420 Intersectionality and Health (3 Credits)**

An introduction to socio-cultural perspectives on health, healing, and wholeness, founded upon an exploration of diverse identities, health beliefs, and practices. Focus is on intersectionality, cultural safety and humility, and a particular emphasis on Blackfoot ways of knowing and perspectives on health.

Instruction (3.0)

Requisite courses: Take NSG-1400 (Required, Concurrent). Take NSG-1410 (Required, Concurrent).

**NSG-1500 Caring Communication (3 Credits)**

An introduction to caring and effective communication to enhance relational practice with clients and families, and within the inter-professional team. Includes therapeutic use of self, and effective team functioning and decision making.

Instruction (3.0)

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1521 (Required, Concurrent). Take NSG-1522W (Required, Concurrent).

**NSG-1521 Assessing Health (3 Credits)**

Provides the theoretical foundations for assessing health and delivering basic nursing care to support health, healing and wholeness. Includes gathering and interpreting subjective and objective client information for the purposes of providing care to adults.

Instruction (3.0), Lab (2.0)

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Concurrent). Take NSG-1522W (Required, Concurrent). Take NSG-1521L (Required, Concurrent).

**NSG-1522 Introduction to Praxis (3 Credits)**

Application of foundational nursing knowledge in praxis with adults in a variety of lab and practice settings, with an emphasis on providing safe, high quality nursing care. Includes focus on the integration of caring communication while practicing assessment and basic nursing skills. The Work Integrated Learning component consists of 48 hours (8 hours for 6 weeks).

Work Integrated Learning (3.0), Lab (1.0)

Equivalent to NSG-1522W.

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Concurrent). Take NSG-1521 (Required, Concurrent). Take NSG-1522L (Required, Concurrent).

**NSG-2254 Maternity and Pediatric Nursing (3 Credits)**

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 (Required, Previous). Take BIO-1161; (Required, Previous). Take BIO-1162; (Required, Previous). Take ENG-1150; (Required, Previous). Take NSG-1155; (Required, Previous). Take NSG-1163; (Required, Previous). Take NSG-1168; (Required, Previous). Take NSG-1173; (Required, Previous). Take PSY-1160; (Required, Previous). Take SOC-1160; (Required, Previous). Take NSG-2293 (Required, Concurrent).

**NSG-2263 Medical-Surgical Nursing Practice (6 Credits)**

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 NSG-1163, NSG-1168, NSG-1173, PSY-1160, SOC-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take BIO-1162 (Required, Previous). Take ENG-1150 (Required, Previous). Take NSG-1155 (Required, Previous). Take NSG-1163 (Required, Previous). Take NSG-1168 (Required, Previous). Take NSG-1173 (Required, Previous). Take PSY-1160 (Required, Previous). Take SOC-1160 (Required, Previous). Take NSG-2268 (Required, Concurrent).

**NSG-2268 Disruptions in Health I (3 Credits)**

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 (Required, Previous). Take BIO-1161 (Required, Previous). Take BIO-1162 (Required, Previous). Take ENG-1150 (Required, Previous). Take NSG-1155 (Required, Previous). Take NSG-1163 (Required, Previous). Take NSG-1163 (Required, Previous). Take NSG-1168 (Required, Previous). Take NSG-1173 (Required, Previous). Take PSY-1160 (Required, Previous). Take SOC-1160 (Required, Previous). Take NSG-2263 (Required, Concurrent).

**NSG-2269 Rural Nursing Practice (6 Credits)**

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 Integrated Learning (6.0)

Equivalent to NSG-2269W.

Requisite courses: Take NSG-1181 (Required, Previous). Take NSG-1182 (Required, Previous). Take NSG-2268 (Required, Concurrent).

**NSG-2279 Nursing Issues and Health Care in Canada (3 Credits)**

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 Credits)**

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 (Required, Previous). Take BIO-1161 (Required, Previous). Take BIO-1162; (Required, Previous). Take ENG-1150 (Required, Previous). Take NSG-1155 (Required, Previous). Take NSG-1163 (Required, Previous). Take NSG-1168 (Required, Previous). Take NSG-1173 (Required, Previous). Take PSY-1160 (Required, Previous). Take SOC-1160 (Required, Previous).

**NSG-2293 Maternity and Pediatric Nursing Practice (6 Credits)**

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-1161 (Required, Previous). Take BIO-1162 (Required, Previous). Take ENG-1150 (Required, Previous). Take NSG-1155 (Required, Previous). Take NSG-1163 (Required, Previous). Take NSG-1168 (Required, Previous). Take NSG-1173 (Required, Previous). Take PSY-1160 (Required, Previous). Take BIO-1160 (Required, Previous). Take SOC-1160 (Required, Previous). Take NSG-2254 (Required, Concurrent).

**NSG-2300 Evidence and Praxis (3 Credits)**

An analysis of how multiple ways of knowing and sources of evidence inform nursing practice. Includes learning to access, assess, critique, and incorporate different forms of evidence, with an emphasis on research utilization in nursing practice and the meaningful incorporation of primary and filtered research evidence.

Instruction (3.0)

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Previous). Take NSG-1521 (Required, Previous). Take NSG-1522 (Required, Previous). Take BIO-1155 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take INS-1155 (Required, Previous). Take NSG-2322 (Required, Concurrent).

**NSG-2321 Health of Persons (6 Credits)**

An examination of chronic and acute health challenges experienced across the lifespan. Incorporates fundamental knowledge of anatomy, pathophysiology, pharmacology, microbiology and human development into nursing responses to the lived experiences of these challenges, with an emphasis on person centered care. Includes knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high quality nursing care.

Instruction (3.0), Lab (2.0)

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Previous). Take NSG-1521 (Required, Previous). Take NSG-1522 (Required, Previous). Take BIO-1155 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take INS-1155 (Required, Previous). Take NSG-2322 (Required, Concurrent).

**NSG-2322 Praxis With Persons (6 Credits)**

Building upon a growing knowledge base in holistic health assessment, this praxis opportunity focuses on supporting health, healing and wholeness at all stages of life, through relational practice, with a focus on the person as the unit of care. Placement experiences in sub-acute and/or post-acute and rural settings will facilitate opportunities for students to expand their view beyond urban hospital practice and participate in person-centred care within a multidisciplinary team. Work Integrated Learning component consists of 192 hours (16 hours for 12 weeks).

Work Integrated Learning (12.0)

Equivalent to NSG-2322W.

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Previous). Take NSG-1521 (Required, Previous). Take NSG-1522 (Required, Previous). Take BIO-1155 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take INS-1155 (Required, Previous).

**NSG-2421 Health of Families (6 Credits)**

An examination of chronic and acute health challenges experienced across the lifespan. Incorporates fundamental knowledge of anatomy, pathophysiology, pharmacology, microbiology and human development into nursing responses to the lived experiences of these challenges, with an emphasis on family theory and contemporary models of care. Includes knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high quality nursing care.

Instruction (2.0), Lab (2.0)

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420; (Required, Previous). Take NSG-1500 (Required, Previous). Take NSG-1521 (Required, Previous). Take NSG-1522 (Required, Previous). Take BIO-1155 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take INS-1155 (Required, Previous). Take NSG-2422W (Required, Concurrent). Take NSG-2421L (Required, Concurrent).



**NSG-2422 Praxis With Families (6 Credits)**

Building upon a growing knowledge base in holistic health assessment, this praxis opportunity focuses on supporting health, healing and wholeness at all stages of life, through relational practice, with a focus on family as the unit of care. A variety of placement experiences will facilitate opportunities for students to expand their view beyond hospital practice and participate in family-centred care within a multidisciplinary team. Work Integrated Learning component consists of 192 hours (16 hours for 12 weeks).

Work Integrated Learning (12.0)

Equivalent to NSG-2422W.

Requisite courses: Take NSG-1400 (Required, Previous). Take NSG-1410 (Required, Previous). Take NSG-1420 (Required, Previous). Take NSG-1500 (Required, Previous). Take NSG-1521 (Required, Previous). Take NSG-1522 (Required, Previous). Take BIO-1155 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take INS-1155 (Required, Previous). Take NSG-2421 (Required, Concurrent).

## Organizational Behavior (ORG)

**ORG-1148 Office Dynamics (3 Credits)**

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 (3.0)

Equivalent to ORG-148.

**ORG-2254 Public Relations (3 Credits)**

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.

## Physical Education (PED)

**PED-1123 Academic Success in Athletics I (1.5 Credits)**

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 Credits)**

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 (1.5 Credits)**

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.

**PED-1155 Applied Anatomy and Kinesiology (3 Credits)**

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 (1.5 Credits)**

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-1163 Health and Wellness I for Public Safety (3 Credits)**

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)

Equivalent to PED-1190.

**PED-1174 Soccer (1.5 Credits)**

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 (1.5 Credits)**

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-1180 Introduction to Coaching (3 Credits)**

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-1190 Fitness & Lifestyles in Public Safety I (3 Credits)**

This course explores the connection between personal wellness and job performance in public safety careers. A student-centered focus on lifestyle modifications, improved physical fitness, and participation in wellness communities. Exposure to relevant employment fitness testing. Not available for supplemental.

Instruction (3.0)

Equivalent to PED-1163.

**PED-2250 Defence and Tactics (1.5 Credits)**

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 (1.5 Credits)**

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.

**PED-2254 Health and Wellness II in Public Safety (3 Credits)**

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-2257 Therapeutic Exercise (3 Credits)**

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-2272 Leadership in Physical Education (3 Credits)**

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-2276 Weight Training and Exercise II (1.5 Credits)**

Focuses on the theoretical concepts pertaining to weight training as well as practical applications using free weights and machines. Students learn weight training exercises and concepts involved with periodization programming. 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 Credits)**

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).

## Physics (PHY)

**PHY-0020 Physics 0020 (6 Credits)**

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 Credits)**

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-1150 Introduction to Physics I (3 Credits)**

Physics I is a calculus-based course that provides the introduction to classical mechanics. Topics covered are motion in two and three dimensions, Newton's Laws, Work Energy, Momentum and Collision and an introduction to rotation. Students registered for this course should have completed PHY-0020 and MTH-0020 or equivalents. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (3.0), Lab (2.0)

Requisite courses: Take PHY-1150L (Required, Concurrent).

## Plant Science (PLT)

### PLT-1152 Introduction to Botany (3 Credits)

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 Credits)

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 (3.0), Lab (2.0)

Equivalent to PLT-155, PLT-150.

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-1155L (Required, Concurrent).

### PLT-2253 Integrated Pest Management I (3 Credits)

An introduction to integrated pest management in Western Canada with a focus on identification of weeds, insects and pathogens, as well as combining biological, mechanical and chemical control methods.

Instruction (3.0), Lab (2.0)

Equivalent to PLT-2261, PLT-261, AGR-271.

Requisite courses: Take BIO-1167; (Required, Previous). Take PLT-2253L (Required, Concurrent).

### PLT-2254 Integrated Pest Management II (3 Credits)

An introduction to pest interactions with agriculture systems in Western Canada. Topics include insect physiology and classification with a focus on integrated pest management.

Instruction (3.0), Lab (2.0)

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-2254L (Required, Concurrent).

### PLT-2260 Special Crops (3 Credits)

A study of crop 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 (3.0), Lab (2.0)

Equivalent to PLT-260.

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-2260L (Required, Concurrent).

### PLT-2262 Field Crops (3 Credits)

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 (3.0), Lab (2.0)

Equivalent to PLT-262, AGR-278.

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-2262L (Required, Concurrent).

### PLT-2264 Greenhouse Management (3 Credits)

Introductory horticulture and greenhouse management with a focus on vegetable, fruit production and novel crops including the incorporation of aquaponics.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-2263.

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-2264L (Required, Concurrent).

### PLT-3350 Plant Physiology (3 Credits)

A study of the underlying physiological mechanisms involved in crop responses at different stages of plant development. Dormancy, germination, vegetative development, reproduction and senescence are related to plant hormones and biochemical changes at the cellular level.

Physiological responses to abiotic and biotic stresses such as water, temperature, salinity, nutrients, diseases and pests are also explained.

Instruction (3.0), Lab (2.0)

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-3350L (Required, Concurrent).

### PLT-3351 Plant Pathology (3 Credits)

A summary of common agricultural plant pathogens and diseases with a focus on their causes, symptoms, transmission, control and economic impact.

Instruction (3.0), Lab (2.0)

Requisite courses: Take BIO-1167 (Required, Previous). Take PLT-3351L (Required, Concurrent).

## Police Cadet Training (PCD)

### PCD-1112 Cadet Physical Wellness Training (1.5 Credits)

This course will teach the skills needed to support personal health and wellness throughout your policing career. This includes physical fitness training, mental wellness strategies, education on proper nutrition and rest, and an emphasis on understanding the benefits of long-term healthy, active living. Not available for supplemental.

Instruction (1.5)

### PCD-1113 Reasonable Officer Response (6 Credits)

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)

### PCD-1114 Law Enforcement Firearms (3 Credits)

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 (1.5 Credits)**

This emergency vehicle operations course is provided to cadets 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, cadets 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 cadets 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 Credits)**

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 (1.5 Credits)**

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 (1.5 Credits)**

The application of procedural law, foundational patrol and investigative skills, interviewing, and scene management in the context of other criminal code offenses (such as cause of disturbance, mischief, etc.). Not available for supplemental.  
Instruction (1.5)

**PCD-1132 Criminal Code Offences II (1.5 Credits)**

The application of federal and provincial legislation, arrest authorities, and release provisions in the context of other criminal code offenses and/or provincial offenses. Not available for supplemental.  
Instruction (1.5)

**PCD-1133 Provincial Offences (1.5 Credits)**

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 Credits)**

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 Credits)**

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 (1.5 Credits)**

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 Credits)**

The comprehensive application of knowledge and skills in a complex criminal code driving related offense such as, criminal code driving offences, impaired driving-related offenses, failed to remain at the scene, dangerous driving, criminal negligence. 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 (1.5 Credits)**

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 (1.5 Credits)**

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)

## Culinary Arts (CLA)

**CLA-1100 Kitchen Fundamentals and Safety (6 Credits)**

An introduction to the fundamental skills required of a cook. Focus is on Terminology, Basic Kitchen Math, Weights and Measures, Food Safety and Sanitation, Seasonings, Tools and Equipment.  
Instruction (5.0), Lab (2.0)  
Requisite courses: Take CLA-1100L (Required, Concurrent).

**CLA-1101 Integrated Food Services (6 Credits)**

A skill and lab-based approach to preparing and serving breakfast dishes, fruits and vegetables, starches, dairy, sandwiches, salads and dressing. Emphasis is on punctual, observed attendance and daily practical performance around customer service and organizing activities to meet service schedules.  
Instruction (1.0), Lab (4.0), Work Integrated Learning (8.0)  
Requisite courses: Take CLA-1101L (Required, Concurrent). Take CLA-1101W (Required, Concurrent).

**CLA-1102 Meat Preparation and Saucier I (6 Credits)**

A study of the anatomy and purchasing of proteins as well as their butchery, cooking, holding and serving. Also includes the production of stocks, soups, stews, gravies and sauces from bones and by-products.  
Instruction (1.0), Lab (8.0)  
Requisite courses: Take CLA-1102L (Required, Concurrent).

**CLA-1103 Bakeshop Production I (6 Credits)**

The analysis of bakeshop ingredients and their chemical reactions and how they are skillfully applied to the production of yeast products, cookies, quick breads, pies, fillings and basic desserts.  
Instruction (1.0), Lab (8.0)  
Requisite courses: Take CLA-1103L (Required, Concurrent).



**CLA-1104 Event Planning, Management & Nutrition (3 Credits)**

A skills-based approach to advanced techniques in the Management of Inventory, Events, Lunch Menu Planning, Nutrition and Special Diets.

Instruction (2.0), Lab (2.0)

Requisite courses: Take CLA-1104L (Required, Concurrent).

**CLA-1105 Integrated Lunch Service (6 Credits)**

The application of gained skills in Intermediate Line Cooking, buffets and plate service in a dining room setting and meeting the needs of customers. Emphasis is on vegetables, salads, hors d'oeuvres, appetizers, pasta and their sauces.

Instruction (1.0), Lab (8.0), Work Integrated Learning (8.0)

Requisite courses: Take CLA-1105L (Required, Concurrent). Take CLA-1105W (Required, Concurrent).

**CLA-1106 Meat Preparation & Saucier II (6 Credits)**

The exploration of further breaking down proteins, some game and variety meats to familiarize the learner to introductory classic French dishes. Emphasis is on brines, marinades, glazes, compound butters, butter-based sauces, consomme and specialty soups.

Instruction (1.0), Lab (8.0)

Requisite courses: Take CLA-1106L (Required, Concurrent).

**CLA-1107 Bakeshop Production II (6 Credits)**

A skills-based approach to the preparation of cakes, icings, fillings, puff pastry, custards and pate a choux.

Instruction (1.0), Lab (8.0)

Requisite courses: Take CLA-1107L (Required, Concurrent).

**CLA-2200 Industry Work Placement (1.5 Credits)**

A capstone course that has the learner participate in interviews with prospective employers and then hired into a professional kitchen for 480 hours.

Instruction (1.5), Work Integrated Learning (32.0)

Equivalent to CUL-2218W, CUL-2218, COC-1132, COC-132.

Requisite courses: Take CLA-2200W (Required, Concurrent).

**CLA-2201 Advanced Management Skills (3 Credits)**

The analysis of the management skills and human resources required to run a kitchen and dining room brigade. Focus is on developing a palate around pairing food, beer, spirits and wine and creating menus for the Garden Court Dining Room's evening dining service.

Instruction (1.0), Lab (6.0)

Requisite courses: Take CLA-2201L (Required, Concurrent).

**CLA-2202 Integrated Dinner Service (6 Credits)**

A skills-based approach to advanced evening dining menu service and plating techniques. Emphasis is on advanced soups, vegetables, starches, infusions, salsas, essences and sauces.

Instruction (1.0), Lab (8.0), Work Integrated Learning (8.0)

Requisite courses: Take CLA-2202L (Required, Concurrent). Take CLA-2202W (Required, Concurrent).

**CLA-2203 Meat Cutting and Cooking (6 Credits)**

A study of cutting and cooking finer proteins specifically lamb, beef tenderloin, veal, game, lobster and seafood. This further includes the application of techniques around sausage, pate, terrines, ballotines and galantines.

Instruction (1.0), Lab (8.0)

Requisite courses: Take CLA-2203L (Required, Concurrent).

**CLA-2204 Bakeshop Production III (6 Credits)**

A study of advanced desserts specifically cremes, petit fours, chocolate, sugar work and frozen applications like granite, sorbet, gelato and ice cream.

Instruction (1.0), Lab (8.0)

Requisite courses: Take CLA-2204L (Required, Concurrent).

## Political Science (PSC)

**PSC-1150 Local Government (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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).

## Practical Nurse Refresher (PNR)

**PNR-2250 Acute and Chronic Nursing Care (3 Credits)**

A review of nursing care of clients with acute and chronic disorders.

A focus on the care of the geriatric client with complex needs, pathophysiology, health data, and nursing management of health priorities. Not available for supplemental.

Instruction (3.0)

**PNR-2251 Nursing Care in Specialty Settings (3 Credits)**

A review of common acute and chronic mental health disorders with a focus on nursing care priorities. The role of the practical nurse in providing nursing care to individuals and families within the community will be explored with a focus on the determinants of health and concepts of holistic care to support health promotion and disease prevention. Course will include a review of the promotion of health during childbearing and childrearing years. Not available for supplemental.

Instruction (3.0)

**PNR-2252 Nursing Foundations and Professionalism (3 Credits)**

A review of the professional role and scope of the practical nurse within the Canadian health care system. Leadership, collaborative practice, legal aspects of care, and ethical decision making will be reviewed. The skill of critical thinking will be explored including the application of the nursing process. An introduction to the Collaborative Partnership Approach to Care model will be included. Not available for supplemental.

Instruction (3.0)

**PNR-2253 Nursing Practice - Theory (3 Credits)**

An exploration of the significant role of the practical nurse in the promotion of workplace safety and patient safety. A review of knowledge and skills related to the fundamentals of health assessment and pharmacology. Communication skills essential to professional nursing practice will be utilized. Not available for supplemental.

Instruction (3.0)

**PNR-2254 Nursing Refresher Skills (3 Credits)**

The application of health assessment and clinical skills commonly used in acute care and complex settings with the lab environment. Emphasis will be on providing safe, competent nursing care. Not eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take PNR-2250 (Required, Previous). Take PNR-2251 (Required, Previous). Take PNR-2252 (Required, Previous). Take PNR-2253 (Required, Previous).

**PNR-2270 Comprehensive Practicum (6 Credits)**

A final comprehensive practicum will allow the student to apply the knowledge, skills, and attitudes reviewed in the refresher program, under the guidance of a preceptor. The clinical practice will encompass entry level full scope of practice skills in a variety of settings. This course requires 240 hours of work integrated learning. Not eligible for Prior Learning Assessment. Not available for supplemental credit.

Work Integrated Learning (16.0)

Equivalent to PNR-2270W.

Requisite courses: Take PNR-2250 (Required, Previous). Take PNR-2251 (Required, Previous). Take PNR-2252 (Required, Previous). Take PNR-2253 (Required, Previous). Take PNR-2254 (Required, Previous).

## Practical Nurse (PNG)

**PNG-1145 Health and the Practical Nurse (3 Credits)**

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 (Required, Concurrent). Take PNG-1147W (Required, Concurrent).

**PNG-1146 Basic Nursing Skills (PN Practice I) (3 Credits)**

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 (Required, Concurrent). Take PNG-1147W; (Required, Concurrent).

**PNG-1147 Practical Nursing Clinical I (1.5 Credits)**

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 Integrated Learning (1.5)

Equivalent to NSG-1147, NSG-147, PNG-1147W.

Requisite courses: Take PNG-1145 (Required, Concurrent). Take PNG-1146 (Required, Concurrent).

**PNG-1148 Health and Individuals (PN Theory II) (3 Credits)**

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 (Required, Previous). Take PNG-1146 (Required, Previous). Take PNG-1147 (Required, Previous). Take BIO-1160 (Required, Previous). Take PNG-1149 (Required, Concurrent). Take PNG-1154W (Required, Concurrent). Take PNG-1159 (Required, Concurrent). Take PNG-1167 (Required, Concurrent).

**PNG-1149 Intermediate Nursing Skills (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to NSG-1149, NSG-149.

Requisite courses: Take PNG-1145 (Required, Previous). Take PNG-1146 (Required, Previous). Take PNG-1147 (Required, Previous). Take BIO-1160 (Required, Previous). Take PNG-1148 (Required, Concurrent). Take PNG-1154W (Required, Concurrent). Take PNG-1159 (Required, Concurrent). Take PNG-1167 (Required, Concurrent).

**PNG-1154 Practical Nursing Clinical II (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to NSG-1154, NSG-154, PNG-1154W.

Requisite courses: Take PNG-1145 (Required, Previous). Take PNG-1146 (Required, Previous). Take PNG-1147 (Required, Previous). Take BIO-1160 (Required, Previous). Take COM-1162 (Required, Previous). Take ENG-1150 (Required, Previous). Take PNG-1148 (Required, Concurrent). Take PNG-1149 (Required, Concurrent). Take PNG-1159 (Required, Concurrent). Take PNG-1167 (Required, Concurrent).

**PNG-1159 Pharmacology (3 Credits)**

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 Credits)**

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 (Required, Previous). Take PNG-1146 (Required, Previous). Take PNG-1147 (Required, Previous). Take PNG-1147 (Required, Previous). Take BIO-1160 (Required, Previous). Take PNG-1148 (Required, Concurrent). Take PNG-1149 (Required, Concurrent). Take PNG-1154W (Required, Concurrent). Take PNG-1159 (Required, Concurrent). Take PNG-1167L (Required, Concurrent).

**PNG-2251 Health and Illness (PN Theory III) (3 Credits)**

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 (Required, Previous). Take PNG-1148 (Required, Previous). Take PNG-1149 (Required, Previous). Take PNG-1159 (Required, Previous). Take BIO-1161 (Required, Previous). Take PNG-2252 (Required, Concurrent). Take PNG-2253W (Required, Concurrent). Take PNG-2256 (Required, Concurrent).

**PNG-2252 Senior Nursing Skills (PN Practice III) (3 Credits)**

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 BIO-1161 (Required, Previous). Take PNG-1148 (Required, Previous). Take PNG-1149 (Required, Previous). Take PNG-1154 (Required, Previous). Take PNG-1159 (Required, Previous). Take PNG-1167 (Required, Previous). Take PNG-2251 (Required, Concurrent). Take PNG-2253W (Required, Concurrent). Take PNG-2254 (Required, Concurrent). Take PNG-2256 (Required, Concurrent).

**PNG-2253 Practical Nursing Clinical III (3 Credits)**

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 Integrated Learning (3.0)

Equivalent to NSG-2253, NSG-253, PNG-2253W.

Requisite courses: Take PNG-1148 (Required, Previous). Take PNG-1149 (Required, Previous). Take PNG-1154 (Required, Previous). Take PNG-1159 (Required, Previous). Take PNG-1167 (Required, Previous). Take BIO-1161 (Required, Previous). Take PNG-2251 (Required, Concurrent). Take PNG-2252 (Required, Concurrent). Take PNG-2254 (Required, Concurrent). Take PNG-2256 (Required, Concurrent).

**PNG-2254 Mental Health Nursing (3 Credits)**

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 (Required, Previous). Take PNG-1149 (Required, Previous). Take PNG-1154 (Required, Previous). Take PNG-1159 (Required, Previous). Take PNG-1167 (Required, Previous). Take BIO-1161 (Required, Previous). Take PNG-2251 (Required, Concurrent). Take PNG-2252 (Required, Concurrent). Take PNG-2253W (Required, Concurrent). Take PNG-2256 (Required, Concurrent).

**PNG-2255 Professional Growth (3 Credits)**

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 (Required, Previous). Take PNG-2252 (Required, Previous). Take PNG-2253 (Required, Previous). Take PNG-2254 (Required, Previous). Take PNG-2256 (Required, Previous). Take PSY-1170 (Required, Previous). Take PNG-2257 (Required, Concurrent). Take PNG-2259W (Required, Concurrent). Take PNG-2260 (Required, Concurrent). Take PNG-2267 (Required, Concurrent).

**PNG-2256 Pathophysiology (3 Credits)**

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 (Required, Previous). Take PNG-1167 (Required, Previous). Take BIO-1160 (Required, Previous). Take BIO-1161 (Required, Previous). Take PNG-2251 (Required, Concurrent). Take PNG-2252 (Required, Concurrent).

**PNG-2257 Health and Families (PN Theory IV) (3 Credits)**

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 (Required, Previous). Take PNG-2252 (Required, Previous). Take PNG-2253 (Required, Previous). Take PNG-2254 (Required, Previous). Take PNG-2256 (Required, Previous). Take PSY-1170 (Required, Previous). Take PNG-2259W, PNG-2260 and PNG-2267 (Required, Concurrent).

**PNG-2259 Practical Nursing Clinical IV (6 Credits)**

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 Integrated Learning (6.0)

Equivalent to NSG-2259, NSG-259, PNG-2259W.

Requisite courses: Take PNG-2251 (Required, Previous). Take PNG-2252 (Required, Previous). Take PNG-2253 (Required, Previous). Take PNG-2254 (Required, Previous). Take PNG-2256 (Required, Previous). Take PSY-1170 (Required, Previous). Take PNG-2255 (Required, Concurrent). Take PNG-2257 (Required, Concurrent). Take PNG-2260 (Required, Concurrent). Take PNG-2267 (Required, Concurrent).

**PNG-2260 Full Scope of Practice Skills (Pr. IV) (3 Credits)**

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 (Required, Previous). Take PNG-2252 (Required, Previous). Take PNG-2253 (Required, Previous). Take PNG-2254 (Required, Previous). Take PNG-2256 (Required, Previous). Take PSY-1170 (Required, Previous). Take PNG-2257 (Required, Concurrent). Take PNG-2259W (Required, Concurrent). Take PNG-2267 (Required, Concurrent).

**PNG-2267 Community Nursing (3 Credits)**

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 (Required, Previous). Take PNG-2252 (Required, Previous). Take PNG-2253 (Required, Previous). Take PNG-2254 (Required, Previous). Take PNG-2256 (Required, Previous). Take PSY-1170 (Required, Previous). Take PNG-2257 (Required, Concurrent). Take PNG-2259W (Required, Concurrent). Take PNG-2260 (Required, Concurrent).

**PNG-2277 Comprehensive Practicum (6 Credits)**

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 Integrated Learning (6.0)

Equivalent to NSG-2277, NSG-277, PNG-2277W.

Requisite courses: Take PNG-2255 (Required, Previous). Take PNG-2257 (Required, Previous). Take PNG-2259 (Required, Previous). Take PNG-2260 (Required, Previous). Take PNG-2267 (Required, Previous). Take SOC-1167 (Required, Previous).

## Presentations (PRS)

**PRS-1155 Speech (3 Credits)**

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 Credits)**

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.

## Psychology (PSY)

**PSY-1140 Psychology and Life (3 Credits)**

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. 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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-1170 or PSY-1171 (Required, Previous).

**PSY-2250 Educational Psychology (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

This course examines the developmental processes and the manifestations/characteristics/symptoms of the range of the major types of 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 Credits)**

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 Credits)**

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).

**PSY-2277 Addictions Treatment (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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)

Equivalent to PSY-4450.

## Renewable Resource Management (RRM)

**RRM-1197 Spatial Information Techniques (3 Credits)**

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 Credits)**

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 (Required, Previous). Take RRM-1197 (Required, Previous). Take RRM-2250L (Required, Concurrent).

**RRM-2252 Water Resources (3 Credits)**

An applied approach to the introduction of hydrology, streamflow mechanics and hydrometric survey techniques. Emphasis is on hydrological data collection and analysis. 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 Credits)**

This course covers the factors controlling formation, classification and fundamental properties of soils in Western Canada. Emphasis is on field and laboratory skills. 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 Credits)**

A study of rangeland habitat ecological concepts including ecological site classification, succession models, vegetation management techniques, and plant physiological responses to disturbance. The application of vegetative inventory and monitoring techniques, and rangeland and riparian health assessments are performed. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Equivalent to RRM-256, RRM-254.

Requisite courses: Take Bio-1170 (Required, Previous). Take BIO-1172 (Required, Previous). Take RRM-2256L (Required, Concurrent).

**RRM-2258 Principles of Wildlife Biology (3 Credits)**

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 (Required, Previous). Take BIO-1172 (Required, Previous). Take RRM-2258L (Required, Concurrent).



**RRM-2259 Principles of Fishery Science (3 Credits)**

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 (Required, Previous). Take BIO-1172 (Required, Previous). Take RRM-2259L (Required, Concurrent).

**RRM-2264 Forest Management (3 Credits)**

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-1170 (Required, Previous). Take BIO-1172 (Required, Previous). Take RRM-1197 (Required, Previous). Take RRM-2264L (Required, Concurrent).

**RRM-2291 Wildlife Habitat Management (3 Credits)**

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 (Required, Previous). Take RRM-2258 (Required, Previous). Take RRM-2291L (Required, Concurrent).

**RRM-2293 Fish Habitat Management (3 Credits)**

An examination of fish habitat characteristics of lotic (stream) and lentic (lake) ecosystems. Emphasis is on fish species habitat requirements, hydrological 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 (Required, Previous). Take RRM-2259 (Required, Previous). Take RRM-2293L (Required, Concurrent).

**RRM-2295 Hydrogeology (3 Credits)**

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 Credits)**

An examination of the scientific basis for the management and protection of biological diversity. Practical applications are explored through examples and case studies that focus on 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 Credits)**

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 (Required, Previous). Take BIO-1172; (Required, Previous). Take RRM-1197; (Required, Previous). Take RRM-2299L (Required, Concurrent).

**RRM-3350 Integrated Resource Management (3 Credits)**

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 Credits)**

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).

**RRM-3369 Fishery Management Techniques (3 Credits)**

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 Credits)**

An applied study of establishing dynamic ecological processes to restore degraded or damaged ecosystems. Focus is on reparation of plant communities, soils, and hydrologic function. Not available for supplemental.

Instruction (3.0), Lab (2.0)

Requisite courses: Take RRM-4454L (Required, Concurrent).

**RRM-4460 Species At Risk Management (3 Credits)**

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 Credits)**

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).

## Research - Applied (RSR)

**RSR-1160 Research and Writing for New Media (3 Credits)**

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. Not available for supplemental.

Instruction (3.0)

Equivalent to RSR-160, APR-160, CAP-151.

**RSR-2257 Video Graphics and Compositing (3 Credits)**

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. Not available for supplemental.

Instruction (5.0)

Equivalent to RSR-2256, RSR-256.

Requisite courses: Take CMM-1156 (Required, Previous).

**RSR-2265 Applied Research II (1.5 Credits)**

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 (1.0)

Equivalent to RSR-2251, RSR-251.

Requisite courses: Take STS-2260 (Required, Previous).

**RSR-2270 Interactive Project (Core Integration) (3 Credits)**

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.

**RSR-3350 Analytics and Experimental Design (3 Credits)**

A study of agronomic data management and the use of analytics to identify patterns and potential solutions for improved crop production. Application of proper experimental protocol and statistically correct interpretation of output from common agriculture methodology will be emphasized.

Instruction (3.0)

Requisite courses: Take STS-1155 (Required, Previous).

**RSR-4450 Senior Project I (3 Credits)**

The application of scientific inquiry in the development of a self-directed capstone project that incorporates the skills, knowledge and techniques obtained in previous courses. Develop and seek opportunities with industry partners to attempt solutions to real world problems. The focus will be on project planning and methodology development that will lead to project culmination in Senior Project II.

Instruction (3.0)

Requisite courses: Take RSR-3350 (Required, Previous).

**RSR-4451 Senior Project II (3 Credits)**

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 Senior Project I.

Instruction (3.0)

Requisite courses: Take RSR-4450 (Required, Previous).

## Science (SCI)

**SCI-0010 Science 0010 (6 Credits)**

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).

## Sociology (SOC)

**SOC-1160 Introduction to Sociology (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Complex Correctional Populations (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-2276 Sexuality (3 Credits)**

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-2290 Addictions and Mental Health in Justice (3 Credits)**

This course provides students with an opportunity to examine the full spectrum of addictions and mental health. Students will explore the relationship between mental health, trauma, and substance use through theories, awareness, stigma, prevention, treatment and evidence-based strategies to promote well-being and mental health. Through a process of self-reflection, research and best practice guidelines, students will develop a professional approach to mental health in Canada. Not available for supplemental.

Instruction (3.0)

**SOC-3355 Cultural Diversity in Conservation Enforcement (3 Credits)**

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.

## Soil (SOL)

**SOL-1150 Agriculture Soils (3 Credits)**

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.

Instruction (3.0), Lab (2.0)

Equivalent to AGR-1169, AGR-1168, AGR-168, AGR-172.

Requisite courses: Take SOL-1150L (Required, Concurrent).

**SOL-2250 Soil Fertility (3 Credits)**

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 (3.0), Lab (2.0)

Equivalent to AGR-2266, AGR-266.

Requisite courses: Take SOL-1150 or RRM-2253 (Required, Previous).

Take SOL-2250L (Required, Concurrent).

## Spanish (SPN)

**SPN-1150 Introductory Spanish (3 Credits)**

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 Credits)**

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).

## Statistics (STS)

**STS-1155 Descriptive Statistics (3 Credits)**

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 Credits)**

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 (4.0)

Equivalent to STS-250.

**STS-2260 Statistics and Applied Research I (3 Credits)**

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 (Required, Previous). Take MTH-1150 (Required, Previous).

**STS-2270 Social Science Research Methods (3 Credits)**

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 Credits)**

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).

## Student Government (SGV)

**SGV-1101 Student Government (1.5 Credits)**

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 (1.5 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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-2103 Student Government (1.5 Credits)**

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 (1.5 Credits)**

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)

**SGV-2113 Student Government (3 Credits)**

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 Credits)**

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 Credits)**

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)

## Survey (SUR)

**SUR-1150 Land Survey I (3 Credits)**

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 (1.0), Lab (3.0)

Equivalent to SUR-150.

Requisite courses: Take SUR-1150L (Required, Concurrent).

**SUR-1180 Land Survey II (3 Credits)**

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 (Required, Previous). Take EDD-1160 (Required, Previous). Take SUR-1150 (Required, Previous).

**SUR-2250 Survey Calculations and Analysis (3 Credits)**

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 Credits)**

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 (Required, Previous). Take SUR-1180 (Required, Previous).



**SUR-2267 Advanced Survey Applications I (3 Credits)**

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 (Required, Previous). Take SUR-1180 (Required, Previous).

**SUR-2272 Cadastral Surveying (3 Credits)**

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 (4.0)

Requisite courses: Take SUR-1180 (Required, Previous).

**SUR-2280 Geomatics Engineering Surveys (3 Credits)**

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 (1.0), Lab (4.0)

Requisite courses: Take SUR-2262 (Required, Previous). Take SUR-2280L (Required, Concurrent).

**SUR-2285 Advanced Survey Applications II (3 Credits)**

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 (1.0), Lab (4.0)

Requisite courses: Take SUR-2262 (Required, Previous). Take SUR-2267 (Required, Previous). Take SUR-2285L (Required, Concurrent).

## Taxation (TAX)

**TAX-2251 Taxation (3 Credits)**

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 (3.0), Work Integrated Learning (1.0)

Equivalent to TAX-251.

Requisite courses: Take ACC-1170 (Required, Previous). Take TAX-2251W (Required, Concurrent).

## Technology Studies (ETS)

**ETS-1151 Introduction to Technology Studies (3 Credits)**

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.

## Therapeutic Recreation (TRG)

**TRG-1150 Introduction to Therapeutic Recreation (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (4.0)

Equivalent to TRG-150.

**TRG-1160 Therapeutic Recreation Program Planning I (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-160.

Requisite courses: Take TRG-1150 (Required, Previous).

**TRG-1164 Leadership Theory (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-164.

**TRG-1199 Practicum I (3 Credits)**

A 200-hour practical application of theoretical concepts under the supervision of a therapeutic recreation professional within a pre-approved facility that provides 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. Development of professional skills required for therapeutic recreation. Not available for supplemental. Graded: Pass/Fail. Work Integrated Learning (3.0)

Equivalent to TRG-199, TRG-1199W.

Requisite courses: Take TRG-1150 (Required, Previous). Take TRG-2263 (Required, Previous or concurrent). Take TRG-1160 (Required, Previous or concurrent).

**TRG-2253 Therapeutic Recreation Assessment (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (4.0)

Equivalent to TRG-253.

Requisite courses: Take TRG-1199 (Required, Previous).

**TRG-2256 Therapeutic Recreation Intervention (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-256.

**TRG-2259 Therapeutic Recreation Issues and Trends (3 Credits)**

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. Not eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Requisite courses: Take TRG-2256 (Required, Previous). Take TRG-2268 (Required, Previous).

**TRG-2260 Therapeutic Recreation Program Planning II (3 Credits)**

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 eligible for Prior Learning Assessment. 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 Credits)**

An overview of disorders and disabilities common to the aging population from the perspective of the therapeutic recreation professional. Not eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-263.

Requisite courses: Take BIO-1152 (Required, Previous).

**TRG-2264 Community Resources (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-264.

Requisite courses: Take TRG-2253 (Required, Previous). Take TRG-2260 (Required, Previous).

**TRG-2268 Therapeutic Recreation Programs (6 Credits)**

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-1199 (Required, Previous). Take TRG-1160 (Required, Previous). Take TRG-2268L (Required, Concurrent).

**TRG-2270 Administrative Practices Therapeutic Recreation (3 Credits)**

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 eligible for Prior Learning Assessment. Not available for supplemental.

Instruction (3.0)

Equivalent to TRG-270.

**TRG-2299 Advanced Practicum II (6 Credits)**

A 320-hour advanced practical application of theoretical concepts under the supervision of a therapeutic recreation professional within a pre-approved facility that provides 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 Integrated Learning (6.0)

Equivalent to TRG-2299W.

Requisite courses: Take TRG-2253 (Required, Previous). Take TRG-2256 (Required, Previous). Take TRG-2260 (Required, Previous). Take TRG-2268 (Required, Previous).

## Transport (TRS)

**TRS-1150 Transportation Legislation (3 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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 Credits)**

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.

## Virtual and Augmented Reality (VXR)

**VXR-1150 Introduction to Immersive Technology (3 Credits)**

An identification of historic milestones in immersive technology, and industry terminology. Students will meet, interact, and learn best practices with industry professionals in extended reality production. Students will gain insight into immersive design through direct exploration of technologies and examples. Using various XR platforms, students will plan and create content to articulate immersive design principles. Not available for supplemental.

Instruction (1.0), Lab (2.0)

Requisite courses: Take VXR-1150L (Required, Concurrent).

**VXR-1160 Art and Design for Extended Reality (3 Credits)**

An introductory modeling course exploring a variety of spatial and object creation techniques necessary for real-time environments. Three-dimensional software and tools facilitating the development of assets and environment creation will be explored. Topics include art and design fundamentals, 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 Asset Production for XR (3 Credits)**

An exploration of a variety of asset types and workflows for XR including intermediate modeling and texturing techniques, animation, shaders, and VFX. Emphasis is on a foundational technical understanding of asset development as well as optimization and workflow efficiency. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1160 (Required, Previous). Take VXR-1161L (Required, Concurrent). Take VXR-1161T (Required, Concurrent).

**VXR-1165 Advanced Design for VXR (3 Credits)**

An advanced course which combines principles of human-centered design with hands-on prototyping and production. User experience 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 (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1160 (Required, Previous). Take VXR-1170 (Required, Previous). Take VXR-1180 (Required, Previous). Take VXR-1165L (Required, Concurrent). Take VXR-1165T (Required, Concurrent).

**VXR-1170 Fundamentals of Coding (3 Credits)**

A hands-on course in which fundamental programming concepts within an industry-standard game engine will be explored. Emphasis will be on completing an optimized immersive experience using a variety of interaction concepts. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1170L (Required, Concurrent). Take VXR-1170T (Required, Concurrent).

**VXR-1171 Coding for Immersive Experiences (3 Credits)**

An advanced game engine coding class that introduces new programming concepts for creating immersive experiences. Focus will be on implementing concepts that result in development efficiency, advanced interactions, and handling of data in XR applications. Through hands-on projects, students will apply software design patterns and advanced techniques to improve application development. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1170 (Required, Previous). Take VXR-1171L (Required, Concurrent). Take VXR-1171T (Required, Concurrent).

**VXR-1180 Spatial Media Production (3 Credits)**

An investigation of the tools and processes used to produce spatial media content for extended reality. This course combines the use of hardware and software techniques with the fundamentals of real-time applications to bring physical images and objects into digital immersive environments. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1180L (Required, Concurrent). Take VXR-1180T (Required, Concurrent).

**VXR-1181 Advanced Media Capture (3 Credits)**

A continuation of VXR 1180 and VXR 1190, investigating advanced audio and visual capture techniques used to create high quality XR content. Through hands-on projects, students will identify, evaluate and implement tools and processes used to produce spatial media environments and experiences for various extended reality platforms. Not available for supplemental.

Instruction (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1180 (Required, Previous). Take VXR-1190 (Required, Previous). Take VXR-1181L (Required, Concurrent). Take VXR-1181T (Required, Concurrent).

**VXR-1190 Immersive Audio Design (3 Credits)**

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 (2.0), Lab (1.0), Tutorial (1.0)

Requisite courses: Take VXR-1190L (Required, Concurrent). Take VXR-1190 (Required, Concurrent).

**VXR-1195 XR Industry Capstone (3 Credits)**

A 120-hour production course that brings together the technical skills and design experience learned throughout the program into an industry focused capstone project. In consultation with their instructors, students will propose a final extended reality project to be completed during the 6-week intensive term. Throughout the term, students will have access to mentorship and studio equipment, and will develop and document their project. At the end of the term, students will highlight the resulting experiences at Lethbridge College's annual Merging Realities event. Not available for supplemental.

Work Integrated Learning (3.0)

Equivalent to VXR-1195W.

Requisite courses: Take VXR-1161 (Required, Previous). Take VXR-1165 (Required, Previous). Take VXR-1171 (Required, Previous). Take VXR-1181 (Required, Previous). Take BUS-1177 (Required, Previous).

## Wind Turbine (WTT)

**WTT-1100 Introductory Electrical Theory (3 Credits)**

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 (Required, Concurrent). Take WTT-1104 (Required, Concurrent). Take WTT-1100L (Required, Concurrent). Take WTT-1100T (Required, Concurrent).

**WTT-1103 DC Laboratory Fundamentals (3 Credits)**

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 WTT-1100 and WTT-1104, 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 (Required, Concurrent). Take WTT-1104 (Required, Concurrent). Take WTT-1103L (Required, Concurrent). Take WTT-1103T; (Required, Concurrent).

**WTT-1104 Canadian Electrical Code and Blueprint Reading (3 Credits)**

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 WTT-1100 and WTT-1103, 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 (Required, Concurrent). Take WTT-1103 (Required, Concurrent). Take WTT-1104T (Required, Concurrent).

**WTT-1110 Wind Turbine Safety I (3 Credits)**

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. Students completing this course will be certified in GWO standard for Working at Heights. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (1.0), Lab (4.0)

Equivalent to WTT-110.

Requisite courses: Take WTT-1110L (Required, Concurrent).



**WTT-1113 Wind Turbine Rotor Blades (1.5 Credits)**

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 Credits)**

An introduction to the fundamental mechanical principles of wind turbines. Focus is on basic function, maintenance, repair, and replacement of wind turbine components. This course includes a WIL component. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (2.0), Work Integrated Learning (15.0)

Equivalent to WTT-114.

Requisite courses: Take WTT-1114W (Required, Concurrent).

**WTT-1115 Wind Energy Theory (1.5 Credits)**

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 and Programmable Controllers (1.5 Credits)**

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, WTT-1121.

Requisite courses: Take WTT-1116L (Required, Concurrent).

**WTT-1117 Wind Turbine Hydraulics (3 Credits)**

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-1127.

**WTT-1118 Wind Park Construction (3 Credits)**

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 Credits)**

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. Students completing this course will be certified in GWO advanced rescue standards. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (1.0), Lab (2.0)

Equivalent to WTT-120.

Requisite courses: Take WTT-1110 (Required, Previous). Take WTT-1120L (Required, Concurrent).

**WTT-1121 Motor Controls & PLC's (3 Credits)**

An intermediate course that exposes students to the aspects of motor control and Programmable Logic Controllers as they function in the wind turbine industry. Not available for supplemental.

Instruction (2.0), Lab (2.0)

Equivalent to WTT-1116, WTT-116.

Requisite courses: Take WTT-1121L (Required, Concurrent).

**WTT-1125 Wind Turbine Industry Communication (1.5 Credits)**

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 (2.0)

Equivalent to COM-1112, COM-112.

**WTT-1127 Wind Turbine Hydraulics (1.5 Credits)**

An introduction to hydraulic systems, this course investigates basic principles of hydraulics which are applied in the maintenance and troubleshooting components and systems in wind turbines. Not available for supplemental. Not eligible for prior learning assessment.

Instruction (2.0)

Equivalent to WTT-1117, WTT-117.

**WTT-1129 Wind Turbine Electrical (3 Credits)**

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 lab setting. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (2.0), Lab (2.0)

Equivalent to WTT-1123, WTT-123.

Requisite courses: Take WTT-1129L (Required, Concurrent).

**WTT-1130 Wind Turbine Maintenance (6 Credits)**

A skills-based approach to component maintenance, inspection and documentation of wind turbine components. Troubleshooting skills with an emphasis on safety. Not available for supplemental. Not eligible for Prior Learning Assessment.

Instruction (4.0), Lab (4.0)

Equivalent to WTT-1124, WTT-124.

Requisite courses: Take WTT-1130L (Required, Concurrent).

## Workplace Health and Safety (WHS)

**WHS-1110 Workplace Safety (3 Credits)**

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.

## Writing (WRI)

**WRI-1150 Writing for Interactive Media (3 Credits)**

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.



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