

> DUAL CREDIT SACI GUIDEBOOK

2026/2027

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SOUTHERN ALBERTA
COLLEGIATE INSTITUTE



LETHBRIDGE
POLYTECHNIC

> COLLEGIATE PROGRAMMING

Collegiates provide specialized programming in a particular subject area, in order to provide students clearer pathways into post-secondary education and careers in their chosen field.

Lethbridge Polytechnic and its lineup of trades, agriculture and health Dual Credit programming are part of a unique collegiate founded in 2023 with various Zone 6 school divisions.

SOUTHERN ALBERTA COLLEGIATE INSTITUTE

Lethbridge Polytechnic

The Southern Alberta Collegiate Institute (SACI) is a unique collaborative partnership of six school divisions, Lethbridge Polytechnic and two non-profit organizations to give youth across Southern Alberta the opportunity to explore career pathways through exploratory and dual credit programming in Trades, Agriculture and Healthcare sectors.

Eligibility

Only students from the following school divisions are eligible to participate in SACI programming:

- AISCA
- FrancoSud
- Grasslands
- Holy Spirit
- Horizon
- Lethbridge
- Livingstone Range
- Palliser
- Westwind

Course Offerings:

The following Dual Credit courses are reserved for SACI partners:

- TRA1131 - Introduction to the Trades
- TRA1132 - Introduction to Transportation Trades
- TRA1133 - Introduction to Electrical Trades
- TRA1134 - Introduction to Construction Trades
- TRA1135 - Introduction to Culinary Trades

Students enrolled in SACI courses participate in a combination of online asynchronous learning and hands-on labs in our state-of-the-art facilities, on a selection of Fridays throughout the semester.



Program Offerings:

Also reserved for SACI partners, pre-employment programs require students to attend a combination of in-person lectures and labs, full-time for a 15 week period:

- Pre-Employment Carpentry
- Pre-Employment Electrical
- Pre-Employment Pipe Trades
- Pre-Employment Welding

Students participating in Dual Credit pre-employment programming will attend classes as part of a mixed-cohort, alongside general polytech students.

Facility:

Programming takes place in existing shop and lab spaces on-campus, as well as a dedicated facility for SACI programming.

> WHAT IS DUAL CREDIT?

In Alberta, Dual Credit programming invites high school students in Grades 10-12 to take approved post-secondary courses and programs, earning them credit at both levels. When taking a Dual Credit with Lethbridge Polytechnic, students are considered both a high school AND polytech student.

Dual Credit programming is an excellent way for to:

- Experiment with subjects that might not be available at your school.
- Learn more about the post-secondary learning experience and environment.
- Meet new people and join our polytech community.
- Earn credit in courses for application in future studies.
- Connect with advisors to plan your future post-secondary studies.

ADDITIONAL OFFERINGS

In addition to SACI specific courses and programs, Lethbridge Polytechnic has over 45 Dual Credit courses approved by Alberta Education. As we continue to build new and exciting pathways for learners, additional courses are also at various stages in the application process.

Courses and programs are selected to run as Dual Credit based on a number of factors, including student interest and format flexibility. If you have a course or area of interest you'd like to see more programming options, please contact our team to discuss, as we are always looking to add to the lineup.

Please visit lethpolytech.ca/dualcredit to view a complete list of courses.

> GETTING STARTED

STEP 1 - TALK TO YOUR SCHOOL

- As tuition is sponsored by divisions, the first step in the process requires students to discuss their eligibility and internal application process at the division level.
- Please note, Dual Credit seats are limited per division and openings may differ.

STEP 2 - APPLY TO THE POLYTECHNIC

- Once students have been approved to take a Dual Credit course by their division, they will apply as an open studies student to Lethbridge Polytechnic. Students applying for a Dual Credit program will choose a pre-employment option instead of open studies.
- A promo code will be provided to students through division Dual Credit contacts in order to waive the application fee. Please note, pre-employment students must use a different code.

STEP 3 - BE READY

- Upon acceptance, students will receive official email communication within 2-4 business days. Packages will include information on how to access Lethbridge Polytechnic accounts, course materials on Canvas and important contacts on the Dual Credit journey.
- Students should monitor Canvas and email accounts for important communication from instructors.

Q & A

HOW ARE OFFERINGS ORGANIZED?

- Course and programs overviews are listed in this document alphabetically by course code and are not based on trade groupings.

WHAT DOES “DELIVERY METHOD” MEAN?

- Introduction courses are delivered using a blended model; theory work is tackled online asynchronously, before coming to campus to participate in hand-on labs. As long as deadlines are met, students can complete work at a time that works best for their schedules. Attendance at in-person labs is mandatory.
- Pre-Employment programs take place on campus and students are expected to attend in-person classes daily for the duration of the semester.

WHAT ARE COURSE “PRE-REQUISITES”?

- Some courses have entrance requirements to ensure students have the necessary experience to set themselves up for success with course content and assessments.
- If students are unsure whether they meet a course's pre-requisites, please contact our team.

SHOULD I PURCHASE REQUIRED EQUIPMENT AND MATERIALS NOW?

- This package is meant to provide students, parents and schools with the most accurate information on Dual Credit offerings and processes at the time of distribution; however, content is subject to change. Please wait to purchase any required equipment and materials until confirmed closer to the start of your course or program.
- All courses require computer and Internet access.

WHO CAN I CONTACT WITH QUESTIONS?

- Contact information for relevant departments is located on the last page of this document.

2026/2027 OFFERING SCHEDULE

Dual Credit Courses	Fall	Winter
AGS1100 - Foundations of Agriculture		X
TRA1131 - Introduction to the Trades	X	X
TRA1132 - Introduction to Transportation Trades		X
TRA1133 - Introduction to Electrical Trades	X	
TRA1134 - Introduction to Construction Trades	X	
TRA1135 - Introduction to Culinary Trades		X
Dual Credit Programs		
Pre-Employment Carpentry Program	X	X
Pre-Employment Electrical Program	X	X
Pre-Employment Pipe Trades Program	X	X
Pre-Employment Welding Program	X	X
Collegiate CTS Courses		
DES Applied CAD & 3D		X
HCS Health Careers Prep		X
MFR Medical First Responder	X <i>(all year)</i>	
GC Greenhouse Green Certificate	X <i>(all year)</i>	

APPLICATION DEADLINES

The following deadline allows our teams adequate time to allocate seats and to prepare for students' arrival.

Deadline	Date
Fall Semester Applications	June 12, 2026

SACI SEMESTER DATES

In order to best accommodate course and program lab dates, SACI semesters differ slightly from general dual credit or Lethbridge Polytechnic semester dates. Please refer to specific dates on the following page for the most up-to-date info.

26FL SCHEDULE EXPECTATIONS

Introductory trades courses and CTS Pathways are delivered in a blended format - theory content will be covered online asynchronously and lab work will take place on campus in a series of predetermined Friday dates that have been approved by both the polytech and school divisions.

Registered students are required to attend all on campus sessions - failure to attend may result in removal from the course. For students who will miss any regularly scheduled high school classes on the specified dates, arrangements should be made with the school.

Here are the dates of mandatory on-campus sessions. Please note, these dates may be subject to change

INTRODUCTION TO THE TRADES GROUP A

Horizon, Livingstone

- Sept. 11, 2026 (*orientation*)
- Sept. 18, 2026
- Sept. 25, 2026
- Oct. 2, 2026
- Oct. 23, 2026
- Oct. 30, 2026
- Nov. 13, 2026
- Nov. 20, 2026 (*presentations*)

INTRODUCTION TO THE TRADES GROUP B

Palliser, Lethbridge, Westwind

- Sept. 11, 2026 (*orientation*)
- Sept. 18, 2026
- Oct. 2, 2026
- Oct. 23, 2026
- Nov. 6, 2026
- Nov. 13, 2026
- Nov. 20, 2026
- Nov. 27, 2026 (*presentations*)

COLLEGIATE CTS COURSES

- Feb. 26, 2026
- Mar. 5, 2026
- Mar. 12, 2026
- Mar. 19, 2026
- Apr. 9, 2026
- Apr. 16, 2026
- Apr. 23, 2026
- Apr. 30, 2026

INTRODUCTION TO ELECTRICAL

- Sept. 18, 2026 (*orientation*)
- Sept. 25, 2026
- Oct. 2, 2026
- Oct. 16, 2026
- Oct. 23, 2026
- Oct. 30, 2026
- Nov. 6, 2026
- Nov. 13, 2026 (*culmination*)

INTRODUCTION TO CONSTRUCTION

- Sept. 18, 2026 (*orientation*)
- Oct. 2, 2026
- Oct. 16, 2026
- Oct. 23, 2026
- Oct. 30, 2026
- Nov. 6, 2026
- Nov. 13, 2026
- Nov. 20, 2026 (*culmination*)

MEDICAL FIRST RESPONDER

- 30+ Fridays, 1-4 p.m.
- Dates to be finalized

GREENHOUSE GREEN CERTIFICATE

- Fridays, 1-4 p.m.
- Dates to be finalized

Unless specified, labs take place on Fridays, from 9 a.m. to 4 p.m. at Lethbridge Polytechnic.

Pre-employment programs are delivered entirely on campus, with a blend of lab and lecture courses. Students will be required to attend classes daily for a semester, following a program-specific schedule provided through their Lethbridge Polytechnic account upon enrollment. Consistent failure to attend classes may result in removal from the program.

Pre-Employment programs consist of five or six courses that run for fifteen weeks:

PRE-EMPLOYMENT PROGRAMS DAILY ON-CAMPUS ATTENDANCE

- Carpentry, Electrical + Welding: Sept. 9 to Dec. 18, 2026
- Pipe trades: Aug. 31 to Dec. 11, 2026

PPE REQUIREMENTS

Students will require personal protective equipment in order to participate in labs, which may include steel-toe boots, safety glasses, coveralls and hearing protection. See course pages for more info.

Please note, students in pre-employment programs will require an additional list of equipment and materials, outlined in the official welcome letter.

SERVICE PACKAGES

For the 2026/2027 academic year, each SACI partner has selected a customized service package that best addresses the needs of their students. These service packages provide divisions with seats in pre-employment programs, additional sections of Intro to the Trades, or Healthcare/Agriculture courses.

For details on your division's customized package, please connect with our team.

INCLUDED COURSES

Seats in Healthcare and Agriculture courses can be allocated in accordance with student interest throughout the academic year. Partners are welcome to purchase additional seats beyond those provided in their package.

Healthcare courses included in packages are:

- BIO1155 - Human Nutrition
- BIO1156 - Wellness + Health Issues
- BIO1160 - Anatomy and Physiology I
- CSP1150 - Medical Terminology/Anatomy and Physiology
- ECE1151 - Health, Nutrition + Safety
- PSY1160 - Introduction to Psychology
- TRG1150 - Introduction to Therapeutic Recreation

Agriculture courses included in packages are:

- AGS1100 - Foundations of Agriculture

AGS1100 - FOUNDATIONS IN AGRICULTURE

Offered in the Winter semester

Delivery Method: Online asynchronous + several required on-campus labs

Total Hours: 75

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: None

Lab Schedule: TBD

Eligibility: Open to all

Course Description:

An introduction to the primary agriculture industries in Southern Alberta including agronomy, animal science and agriculture business. Discussions and projects will include identification of basic agriculture science and economic principles, interaction between industries and evolving career opportunities.

Course Outcomes:

1. Explain the role of agriculture in maintaining environmental soundness and sustainability including land usage, energy, water, and soil.
2. Explain the impact of agriculture management practices on plants and plant health as well as animals and animal welfare.
3. Compare food and agriculture commodities produced in southern Alberta including composition, nutrients, food safety, security, and processing techniques.
4. Examine agriculture technologies, including automation, robotics, biotechnology, precision agriculture, and genetics.

Assessments:

- Lab Assignments
- Quizzes
- Exams

Required Equipment & Materials:

- None

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- *PSI3319*

BIO1155 - HUMAN NUTRITION

Offered in the Winter semester

Delivery Method: Online asynchronous

Total Hours: 45

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: Biology 30

Materials Cost: \$150

Eligibility: Open to all

Course Description:

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.

Course Outcomes:

1. Recognize the relationship between nutrition and health.
2. Identify and explain the roles of carbohydrates, lipids, proteins, vitamins, minerals and water in the body.
3. Explain the connection between nutrition, energy and metabolism in the human body.
4. Identify the differing nutritional needs of the body through life stages such as pregnancy, infancy through adolescence, and adulthood.
5. Understand the importance of food additives, environmental toxins, and food preparation practices.

Assessments:

- Assignments
- Quizzes
- Exam

Required Equipment & Materials:

- Textbook

Transferability:

- *Required course for:* General Arts and Sciences - Kinesiology Certificate, Bachelor of Nursing, Exercise Science
- *Approved elective for:* General Arts and Sciences - Health Science Certificate, General Arts and Sciences - Science Certificate
- *External Transfer Equivalent at:* Ambrose University, Athabasca University, Concordia University of Edmonton, The King's University, MacEwan University, Mount Royal University, St. Mary's University, University of Alberta, University of Lethbridge

BIO1156 - WELLNESS & HEALTH ISSUES

Offered in the Fall semester

Delivery Method: Online asynchronous

Total Hours: 45

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$50 (approx.)

Eligibility: Open to all

Course Description:

An overview of the dimensions of wellness, including physical, emotional, social, intellectual, spiritual, occupational and environmental wellness. A focus on the concepts of the dimensions and specific areas of health and wellness within the context of community including cost to the Health Care System. The analysis, explanation and identification of individualized strategies of personal health issues and dimensions of wellness to build resiliency and take responsibility for one's own health.

Course Outcomes:

1. Define dimensions of wellness and discuss interconnection of each for overall health and wellness.
2. Apply transtheoretical model of change to wellness dimensions for personal and professional scenarios.
3. Promote health by applying strategies in components of health-related fitness, exercise and nutrition.
4. Discuss psychosocial dimensions of wellness and identify strategies for improving personal and professional balance for psychosocial health.
5. Recognize the effects of stress on dimensions of wellness, and demonstrate, compare and contrast strategies to manage stress.
6. Identify and discuss current issues related to health and wellness, including health and safety issues.
7. Discuss and plan strategies to build resiliency in personal and professional wellness that assist in healthy active aging.

Assessments:

- Reflections
- Quizzes
- Assignments

Required Equipment & Materials:

- Textbook

Transferability:

- *Required course for:* Practical Nurse
- *Approved Elective for:* General Arts and Science, Exercise Science
- *External Transfer Equivalent at:* Athabasca University, Concordia University of Edmonton, King's University, MacEwan University, Mount Royal, Norquest College, Northern Lakes College, University of Lethbridge

BIO1160 - ANATOMY AND PHYSIOLOGY I

Offered in the Winter semester

Delivery Method: Online asynchronous + several optional on-campus labs

Total Hours: 60

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: Biology 30

Materials Cost: \$200 (approx.)

Lab Schedule: TBD

Eligibility: Open to all

Course Description:

A comprehensive study of anatomical terms, body organization, basic chemistry, histology, skeletal system, muscular system, digestive system and the reproductive system. Labs include study of the skeleton, muscles and histology.

Course Outcomes:

1. Explain the basic structure and function of the major skeletal, muscular, digestive and reproductive systems at the biochemical, cellular, tissue, organ and organ system levels.
2. Recognize and name the detailed structures of the skeletal, muscular, digestive and reproductive systems using scientific and medical terminology.
3. Use compound and dissection microscopes to view tissue structures.
4. Work in group and individualized learning settings with anatomical materials and models.
5. Use anatomical language to describe body organization and the location of various body parts, and give examples of practical applications where such language is used and is necessary.

Assessments:

- Exams
- Case Studies
- Discussion Posts

Required Equipment & Materials:

- Various textbooks

Transferability:

- *Required course for:* Bachelor of Nursing, Practical Nursing, Massage Therapy
- *Approved Elective for:* Criminal Justice - Corrections, Criminal Justice - Policing, General Arts and Science
- *External Transfer Equivalent at:* Athabasca University, Bow Valley College, Concordia University of Edmonton, King's University, MacEwan University, Medicine Hat College, Mount Royal University, SAIT, St.Mary's University, University of Alberta, University of Calgary, University of Lethbridge

CSP1150 – MEDICAL TERMINOLOGY/ANATOMY & PHYSIOLOGY

Offered in the Fall semester

Delivery Method: Online asynchronous

Total Hours: 45

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$100 (approx.)

Eligibility: Open to all

Course Description:

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.

Course Outcomes:

1. Understanding of basic human anatomy and physiology and related word elements.
2. Correlate medical words to radiographic (by drawing body structures), surgical and diagnostic information.
3. Competent pronunciation and spelling of medical words and medical abbreviations to facilitate computer communication skills (oral and written) necessary in a medical setting.
4. Increased awareness of common disease processes, treatment and basic pharmacology.
5. Transfer of medical word building skills to hospital and medical clinic setting.

Assessments:

- Discussions
- Exams
- Quizzes
- Case Studies
- Final Exam

Required Equipment & Materials:

- Various textbooks

Transferability:

- *Required course for:* Massage Therapy, Medical Device Reprocessing, Unit Clerk
- *External Transfer Equivalent at:* Athabasca University, Bow Valley College, MacEwan University, University of Lethbridge

ECE1151 - HEALTH, NUTRITION AND SAFETY

Offered in the Fall semester

Delivery Method: Online asynchronous

Total Hours: 45

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$135 (approx.)

Eligibility: Open to all

Course Description:

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.

Course Outcomes:

1. Display basic principles and practices that support a wellness lifestyle for yourself and children in your care.
2. Identify government regulations and how they ensure the maintenance of a healthy and safe environment for young children and adults in childcare settings and in-home settings.
3. Describe signs and symptoms of childhood diseases, methods of preventing escalation and spread of infections, and ways of caring for those who are ill.
4. Demonstrate menu planning that accounts for the value of nutrients in foods, food safety measures, nutrition requirements for adults and children and the social/emotional and cultural implications of food.
5. Describe elements that can cause injuries, methods for avoiding injuries and possible responses in the event of injuries.
6. Describe the probable factors resulting in child abuse, detection signs and protocol for reporting suspected child abuse to appropriate authorities and agencies.

Assessments:

- Analysis
- Application Activities
- Midterm Exam
- Final Exam

Required Equipment & Materials:

- Textbook

Transferability:

- *Required course for:* Early Childhood Education
- *External Transfer Equivalent at:* Bow Valley College, Concordia University of Edmonton, MacEwan University, Medicine Hat College, Portage College, University of Lethbridge

PSY1160 - INTRODUCTION TO PSYCHOLOGY

Offered in the Winter semester

Delivery Method: Online asynchronous

Total Hours: 60

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$100 (approx.)

Eligibility: Open to all

Course Description:

This course gives students a basic understanding and overview of the field of psychology. Attention is given to 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.

Course Outcomes:

1. Discuss schools of psychology and beginnings of psychology as a science.
2. Identify the relationship between physiology and behaviour.
3. Identify theories of personality formation and assessment.
4. Describe the developmental issues spanning the prenatal environment, newborn, adolescence, and early, middle and later adulthood.
5. List and describe the features and functions of the central and peripheral nervous system.
6. Define intelligence and identify intelligence testing instruments.
7. Explain short and long-term memory and how we remember and/or forget information.
8. Describe the principles of learning (classical, operant, and observational).
9. Explain social perception, attitudes, social influences, prejudice, and discrimination.
10. Define abnormal behaviour, its causes, and the various approaches to therapy.
11. Examine several different psychological disorders, how they manifest and appropriate interventions.
12. Define stress, its impact, and how we cope with it.

Assessments:

- Exams
- Quizzes
- Activities

Required Equipment & Materials:

- Textbook

Transferability:

- *Required course for:* Criminal Justice – Corrections, Criminal Justice – Policing, Bachelor of Nursing
- *Approved Elective for:* Business Administration, General Arts and Science
- *External Transfer Equivalent at:* Athabasca University, Bow Valley College, College of the Rockies, Concordia University of Edmonton, Keyano College The King's University, Lakeland College, MacEwan University, Medicine Hat College, Mount Royal University, NorQuest, Northern Lakes College, SAIT, St. Mary's University, University of Alberta, University of Lethbridge

TRA1131 - INTRODUCTION TO THE TRADES

Offered in the Fall + Winter semesters

Delivery Method: Online asynchronous + nine on-campus labs

Total Hours: 75

Polytech Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$250 (provided)

Eligibility: SACI Students

Course Description:

As an introductory course, students will explore and experience 12 trades including plumber, welder, carpenter, electrician, power line technician, wind turbine technician, automotive technician, heavy equipment technician, agricultural heavy equipment technician, parts technician, cook and baker. Students will participate in both online knowledge-based work complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for trades and give them a better understanding of their own aptitude and interests.

Course Outcomes:

1. Recognize their own aptitude and interests within the trades.
2. Demonstrate an introductory understanding of each individual trade.
3. Apply basic safety practices within each trade.
4. Apply knowledge of each trade skill set to lab situations.
5. Apply knowledge of tools to a lab situation.

Assessments:

- Quizzes
- Labs (*Subject to change*)
- Portfolio

Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- PSI3310

TRA1132 - INTRODUCTION TO TRANSPORTATION TRADES

Offered in the Winter semester

Delivery Method: Online asynchronous + eight on-campus labs

Total Hours: 76

Polytech Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$250 (approx.)

Eligibility: SACI Students

Course Description:

Students will explore automotive, heavy-duty, agriculture equipment, and parts trades. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for automotive, heavy-duty, agriculture equipment, and parts trades, giving them a refined understanding of their own aptitude and interests.

Course Outcomes:

1. Evaluate your own aptitude and interests within automotive, heavy-duty, agriculture equipment and parts trades.
2. Demonstrate awareness of automotive, heavy-duty, agriculture equipment and parts trades environments.
3. Apply safe work practices within automotive, heavy-duty, agriculture equipment and parts trades.
4. Apply knowledge of automotive, heavy-duty, agriculture equipment and parts trades occupational skill sets to lab situations.
5. Apply knowledge of tools to automotive, heavy-duty, agriculture equipment and parts trades.
6. Recognize the relationship between automotive, heavy duty, agriculture equipment and parts trades.

Assessments:

- Quizzes
- Labs (*Subject to change*)
- Assignments
- Discussions
- Portfolio

Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- PSI3315

TRA1133 - INTRODUCTION TO ELECTRICAL TRADES

Offered in the Fall semester

Delivery Method: Online asynchronous + eight on-campus labs

Total Hours: 60

Polytech Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$200 (approx.)

Eligibility: SACI Students

Course Description:

Students will explore electrical and wind turbine technician trades. Students will participate in online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for electrical and wind turbine technician trades, giving them a refined understanding of their own aptitude and interests.

Course Outcomes:

1. Evaluate your own aptitude and interests within electrical and wind turbine technician trades.
2. Demonstrate awareness of electrical and wind turbine technician trades environments.
3. Apply safe work practices within electrical and wind turbine technician trades.
4. Apply knowledge of electrical and wind turbine technician trades occupational skill sets to lab situations.
5. Apply knowledge of tools to electrical and wind turbine technician trades.

Assessments:

- Quizzes
- Labs (*Subject to change*)
- Assignments
- Discussions
- Portfolio

Required Equipment & Materials:

- Gloves
- CSA-approved safety shoes/boots
- Safety glasses

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- PSI3318

TRA1134 - INTRODUCTION TO CONSTRUCTION TRADES

Offered in the Fall semester

Delivery Method: Online asynchronous + eight on-campus labs

Total Hours: 70

Polytech Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$250 (approx.)

Eligibility: SACI Students

Course Description:

Students will explore carpentry, welding and pipetrades. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for carpentry, welding, and pipetrades trades, giving them a refined understanding of their own aptitude and interests.

Course Outcomes:

1. Evaluate your own aptitude and interests within carpentry, welding and pipetrades.
2. Demonstrate awareness of carpentry, welding and pipetrades environments.
3. Apply safe work practices within carpentry, welding and pipetrades.
4. Apply knowledge of carpentry, welding and pipetrades occupational skill sets to lab situations.
5. Apply knowledge of tools to carpentry, welding and pipetrades.

Assessments:

- Quizzes
- Labs (*Subject to change*)
- Assignments
- Discussions
- Portfolio

Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- *PSI3316*

TRA1135 - INTRODUCTION TO CULINARY TRADES

Offered in the Winter semester

Delivery Method: Online asynchronous + seven on-campus labs

Total Hours: 74

Polytech Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: None

Eligibility: SACI Students

Course Description:

Students will explore the culinary field through different thematic culinary experiences. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade that are applicable to everyday life. This course will develop students' appreciation for culinary trades, refining their own skills, aptitude, and interests.

Course Outcomes:

1. Evaluate your own aptitude and interests within cooking and baking trades.
2. Demonstrate awareness of cooking and baking trades environments.
3. Apply safe work practices when cooking and baking.
4. Apply knowledge of cooking and baking trades occupational skill sets in lab situations.
5. Apply knowledge of equipment when cooking and baking

Assessments:

- Quizzes
- Labs (*Subject to change*)
- Assignments
- Discussions
- Portfolio

Required Equipment & Materials:

- None

Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

PSI Code:

- *PSI3317*

TRG1150 – INTRODUCTION TO THERAPEUTIC RECREATION

Offered in the Fall semester

Delivery Method: Online asynchronous

Total Hours: 45

Post-Secondary Credits: 3

High School Credits: 5

Pre-Requisites: None

Materials Cost: \$100 (approx.)

Eligibility: Open to all

Course Description:

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 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.

Course Outcomes:

1. Describe the helping nature of the service provider role.
2. Describe the history, role, and function of therapeutic recreation.
3. Identify disabilities and barriers for individuals and apply the role of therapeutic recreation.
4. Identify values and beliefs conducive to providing effective service to people.
5. Define professionalism as it relates to providing services in the helping role.
6. Compare and contrast various therapeutic recreation conceptual models and recognize the importance of using a model in practice.
7. Compare and contrast various living option levels and the differences in the service delivery of therapeutic recreation.
8. Identify the purpose of a team approach and how to work within various healthcare teams.
9. Define issues that affect job related stress associated with the role of helper.

Assessments:

- Exams
- Volunteer Work
- Assignments

Required Equipment & Materials:

- Textbook

Transferability:

- *Required course for:* Therapeutic Recreation Gerontology
- *External Transfer Equivalent at:* University of Lethbridge

PRE-EMPLOYMENT CARPENTRY PROGRAM

Offered in the Fall + Winter semester

Delivery Method: On-campus lectures + labs

Length of Program: 15 weeks

Polytech Credits: 19

High School Credits: 15 CTS

Pre-Requisites: English 10-2 + Math 10-3

Materials Cost: \$450 (*approx.*)

Eligibility: SACI Students

Program Description:

This program is an introduction to the fundamentals of carpentry, including aspects of important safety practices, building materials, common tools, foundation and support systems, and more. With a combination of theoretical knowledge and hands-on experience, students will gain skills for a successful career in carpentry. This program covers all first-year carpentry apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

Courses:

1. CRP1100: Safety and Building Materials (*3hrs/week*)
2. CRP1101: Tools (*8hrs/week*)
3. ECRP1102: Site Preparation (*8hrs/week*)
4. ECRP1103: Estimating and Drawing (*6hrs/week*)
5. CRP1104: Practicum Placement (*2 weeks*)

Assessments:

- Quizzes
- Exams
- Projects
- Labs
- Practicum Evaluation

Required Equipment & Materials: (*to be confirmed*)

- Apprenticeship first period Carpentry ILM Package
- Drafting Supplies
- SHARP-520XT calculator
- Safety glasses
- CSA-approved safety shoes/boots

Certificate

- Upon program completion, students will receive a Pre-Carpentry Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge Polytechnic or other accredited Albertan post-secondaries.

CTS Course Equivalents:

- CRA3900, CRA3402, CRA3407, CRA3412, CRA3417, CRA3422, CRA3427, CRA3432, CRA3437, CRA3442, CRA3447, CRA3452, CRA3457, CRA3462 + CRA3467.

PRE-EMPLOYMENT ELECTRICAL PROGRAM

Offered in the Fall + Winter semester

Delivery Method: On-campus lectures + labs

Length of Program: 15 weeks

Polytech Credits: 19

High School Credits: 15 CTS

Pre-Requisites: English 20-2, Math 20-3 + Science 10

Materials Cost: \$450 *(approx.)*

Eligibility: SACI Students

Program Description:

This program is an introduction to the fundamentals of the electrical trade, including aspects of important safety legislation, principles of electromotive force, circuit tests and repairs, the Canadian Electrical code and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful electrical career. This program covers all first-year electrical apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

Courses:

1. ELT1100: Workplace safety *(2hrs/week)*
2. ELT1101: Circuit Fundamentals *(10hrs/week)*
3. ELT1102: Lab Fundamentals *(6hrs/week)*
4. ELT1103: Electrical Code and Drawings *(6hrs/week)*
5. ELT1104: Practicum Placement *(2 weeks)*

Assessments:

- Quizzes
- Exams
- Labs
- Practicum Evaluation

Required Equipment & Materials: *(to be confirmed)*

- Apprenticeship first period Electrician ILM Package
- Electrical Code Book
- SHARP-520XT calculator
- Safety glasses
- Ruler

Certificate

- Upon program completion, students will receive a Pre-Electrical Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge Polytechnic or other accredited Albertan post-secondaries.

CTS Course Equivalents:

- ETA3900, ETA3400, ETA3405, ETA3410, ETA3415, ETA3420, ETA3425, ETA3430, ETA3435, ETA3440, ETA3445, ETA3450, ETA3455, ETA3460 + ETA3465.

PRE-EMPLOYMENT PIPE TRADES PROGRAM

Offered in the Fall + Winter semester

Delivery Method: On-campus lectures + labs

Length of Program: 15 weeks

Polytechnic Credits: 19

High School Credits: 15 CTS

Pre-Requisites: English 20-2, Math 20-3 + Science 10

Materials Cost: \$450 (*approx.*)

Eligibility: SACI Students

Program Description:

This program is an introduction to the fundamentals of pipe trades, including aspects of important safety legislation, effective tool usage, welding basics, drawing concepts, scientific principles and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful career in the pipe trades. This program covers all first-year pipe trades apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

Courses:

1. PTR1100: Workplace Safety and Rigging (*3hrs/week*)
2. PTR1101: Tools, Equipment and Materials (*9hrs/week*)
3. PTR1102: Metal Fabrication (*5 hrs/week*)
4. PTR1103: Drawing and Specifications (*3hrs/week*)
5. PTR1104: Calculations and Science (*5hrs/week*)
6. PTR1105: Practicum Placement (*5hrs/week*)

Assessments:

- Quizzes
- Exams
- Labs
- Calculations
- Practicum Evaluation

Required Equipment & Materials: (*to be confirmed*)

- Apprenticeship first year GAS (Gas Fitting) PLU ILM package
- IPT Pipe Trade's Handbook
- Casio Fx-260 calculator
- Architectural and metric rulers
- Safety glasses
- CSA-approved safety shoes/boots

Certificate

- Upon program completion, students will receive a Pre-Pipe Trades Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge Polytechnic or other accredited Albertan post-secondaries.

CTS Course Equivalents:

- PLA3900, PLA3406, PLA3411, PLA3416, PLA3421, PLA3426, PLA3431, PLA3436, PLA3441, PLA3446, PLA3451, PLA3456, PLA3461, PLA3466 + PLA3471.

PRE-EMPLOYMENT WELDING PROGRAM

Offered in the Fall + Winter semester

Delivery Method: On-campus lectures + labs

Length of Program: 15 weeks

Polytech Credits: 19

High School Credits: 15 CTS

Pre-Requisites: English 10-2 + Math 10-3

Materials Cost: \$600 (*approx.*)

Eligibility: SACI Students

Program Description:

This program is an introduction to the fundamentals of the welding trade, including aspects of safety protocol, electrical concepts, commons weld styles, math principles and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful welding career. This program covers all first-year welding apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

Courses:

1. WDG1100: Workplace Safety and Tools (*5hrs/week*)
2. WDG1101: Properties of Metal (*6hrs/week*)
3. WDG1102: Welding Process (*10 hrs/week*)
4. WDG1103: Welding Trade Math (*3hrs/week*)
5. WDG1104: Practicum Placement (*2 weeks*)

Assessments:

- Quizzes
- Labs
- Exams
- Assignments
- Practicum Evaluation

Required Equipment & Materials: (*to be confirmed*)

- 1st Period ILM Welding package
- IPT Metal Trades Handbook
- Casio FX-260 calculator
- Safety glasses
- CSA-approved safety shoes/boots
- Coveralls
- Medium duty welding gloves
- Welding helmet

Certificate

- Upon program completion, students will receive a Pre-Welding Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge Polytechnic or other accredited Albertan post-secondaries.

CTS Course Equivalents:

- WDA3900, WDA3401, WDA3403, WDA3406, WDA3407, WDA3408, WDA3411, WDA3413, WDA3415, WDA3420, WDA3423, WDA3427, WDA3429, WDA3432 + WDA3437.

COLLEGIATE CTS COURSES

Offered in the Winter semester, these courses award high school credit only.

HCS: HEALTH CAREERS PREP

Delivery Method: Online asynchronous + nine on-campus labs

Length of Program: 12 weeks

Polytechnic Credits: None

High School Credits: 5 CTS

Materials Cost: None

Eligibility: SACI Students

Program Description:

This introductory health services course provides students with foundational knowledge and hands-on skills for exploring careers in health care, community support, and therapeutic recreation services. Students will examine wellness and determinants of health, practice interpreting vital signs as indicators of health conditions. They will develop competencies in personal care and safety protocols, including First Aid, CPR, and AED use, while also exploring mental health and wellness strategies to support themselves and others. Emphasis is placed on understanding and supporting persons with disabilities, recognizing the impact of societal values, and applying inclusive care practices. Through these courses, students gain practical experience, basic competencies and essential knowledge to prepare for further study or entry-level opportunities in health and community services.

CTS Course Equivalents:

- CCS2010, CCS3060, HCS2020, HCS3020 + HSS1010

DES: APPLIED CAD & 3D

Delivery Method: Online asynchronous + nine on-campus labs

Length of Program: 12 weeks

Polytechnic Credits: None

High School Credits: 4 CTS

Materials Cost: None

Eligibility: SACI Students

Program Description:

This introductory design course provides students with a foundation in technical sketching, computer-aided design (CAD), and digital fabrication technologies. Students will learn the principles of technical sketching and design communication to create accurate 3D models. These skills are applied through hands-on projects using 3D printing and laser cutting/etching to fabricate designs. Students will design, model, and manufacture a project that showcases their creativity and technical skills. Emphasis is placed on problem-solving, innovation, and precision in transforming digital models into physical products. Through these courses, students gain practical design and fabrication skills while exploring career pathways in architecture, product design, engineering, trades, and manufacturing.

CTS Course Equivalents:

- DES1020, DES1040, DES1050 + DES2055

*Students applying for CTS courses will NOT submit a Lethbridge Polytechnic application.
A separate registration form must be completed. Contact collegiate team for access.*

COLLEGIATE CTS COURSES

Offered throughout the year with a fall intake, these courses award high school credit only.

MFR: MEDICAL FIRST RESPONDER

Delivery Method: Online asynchronous + weekly on-campus labs

Length of Program: 34 weeks

Polytechnic Credits: None

High School Credits: 5 CTS

Materials Cost: None

Eligibility: SACI Students

Program Description:

This course introduces learners to the knowledge and practical skills required to provide immediate care in emergency situations. Participants will learn to assess patients, manage medical and trauma emergencies, and support emergency medical services through effective intervention and communication. The course also addresses scene management, stress awareness, and the application of foundational principles in pre-hospital care. Students will complete First Aid, Basic Life Support, Incident Command System 100 and Working Minds certifications as components of this program.

CTS Course Equivalents:

- HCS2020, HCS3040, HCS1080, HSS1010 + HCS3020

GC: GREENHOUSE GREEN CERTIFICATE

Delivery Method: Online asynchronous + on-campus labs

Length of Program: TBD

Polytechnic Credits: None

High School Credits: 16 CTS

Materials Cost: None

Eligibility: SACI Students

Program Description:

This program introduces learners to the knowledge and practical skills required to work effectively in greenhouse production and controlled-environment agriculture. Participants will learn foundational principles of plant growth, greenhouse operations, crop management, irrigation systems, pest control, workplace safety, and equipment operation through a combination of classroom instruction and hands-on training. The program also addresses environmental sustainability, record keeping, and communication skills essential for employment in the horticulture industry. Students will complete components aligned with Alberta's Green Certificate Program standards as part of this training.

CTS Course Equivalents:

- OTH9927, OTH9928 + OTH9929

*Students applying for CTS courses will NOT submit a Lethbridge Polytechnic application.
A separate registration form must be completed. Contact collegiate team for access.*

> HAVE QUESTIONS?

ABOUT ELIGIBILITY, SCHEDULE + GEAR?

Want to discuss:

- Required equipment
- Lab schedules
- Division pre-requisites

Contact: **Collegiate Coordinator**

Cheryl Zumbach • cheryl.zumbach@southernalbertacollegiateinstitute.ca

ABOUT DUAL CREDIT PROGRAMMING?

Looking for information on:

- Course applications/registrations
- Dropping/withdrawing from a course
- Content on the Dual Credit Student Hub Canvas community
- Future Dual Credit offerings
- Anything else you can't find the answer for!

Contact: **Dual Credit Team**

dual.credit@lethpolytech.ca • 403.320.3200 Ext. 5656