

## Career and Technology Centre

The Centre provides access to rigorous, academic, industry-standard programs, certificated journeyman instructors, facilities and equipment for students seeking industry-standard credentials in high demand, highly skilled occupations while they complete related CTS courses required for the Alberta Diploma.

### Autobody | Autobody Technician Apprentice



Students practice and develop skills required to identify and demonstrate knowledge and competency for damage repair, restoration and enhancement of the exterior finishes of a vehicle. Students develop proficiency in skills related to sheet metal forming/finishing, paint preparation, paint spray techniques, automotive knowledge, windshield/glass repair and replacement, detailing/graphics, tool usage and knowledge as it relates to the transportation

industry. Students will be encouraged to engage in pre-apprenticeship courses that will prepare them to challenge the 1<sup>st</sup> year apprenticeship theory exams. When successful, they will be awarded advanced standing in their trade. The Registered Apprenticeship Program (RAP) is also encouraged so hours can be applied towards the journeyman's ticket. There is a \$1,000.00 scholarship for students, details of which will be explained in class.

Classes and detailed information;

- Introductory (5 credits available)
- Intermediate (10 credits available)
- Advanced / Apprentice First Period (10 credits available)
- [www.ct-centre.ca/autobody.asp](http://www.ct-centre.ca/autobody.asp)

### Cosmetology | Hairstylist Apprenticeship and/or Esthetics Certificate



Students will develop skills and theoretical knowledge in a dynamic, client based, full service salon. Cosmetology is an excellent introduction to many careers that include, hairstylist, esthetician, make-up artist, nail technician, massage therapist, tattoo or body piercing artist, sales representative, educator, teaching assistant, platform artist, salon/spa owner and entrepreneur. Students explore all aspects of the beauty industry, including budget, client relationships, inventory management and extensive full spectrum product knowledge.

Classes and detailed information;

- Hairstylist Apprentice First Period (25 credits available)
- Hairstylist Apprentice Second Period (25 credits available)
- <http://www.ct-centre.ca/cosmetology.asp>



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## Culinary Arts | Cook Apprentice



Students will have access to an industry grade kitchen facility and multiple food service outlets, ranging from a modern Market Place Deli, Classic Dining Room for Buffet and À la carte service, catering and hosting special events. Students will learn basic classical cuisine techniques as well as current food styles to help build on core skills, knowledge and attitudes for long term success in the cooking industry.

A teacher-chef will guide students through career pathway program planning and theoretical activities. Industry experienced Journeyman Chefs and Bakers will lead students in practical kitchen activities. Students will participate in all areas of the

kitchen and food service outlets to help develop a comprehensive understanding of the hospitality industry. As cook apprentices, students will go beyond culinary skills to begin developing more business-focused skills ranging from:

- food costing and menu planning
- customer service relationships
- inventory and stock management
- developing written and verbal communication skills needed in this highly competitive industry

Students will have opportunities to connect with SAIT's Culinary Arts Program and the Hospitality Industry as networking opportunities will be encouraged and facilitated by the CTC Culinary Team. Upon completion of the program, students will be ready to challenge the first period exam and, if successful, will be given advanced standing in their trade. Students are encouraged to participate in the Registered Apprenticeship Program (RAP) so that hours may be applied to the journeyman's ticket.

Classes and detailed information:

- Cook Apprentice First Period (24 credits available)
- Preferred seating in SAIT Professional Cooking Program (9 credits available)



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### Media Design and Communication | Broadcasting

Students may pursue courses in three distinct pathways that include;



Videography/Broadcasting, Computer Animation, and Photojournalism. They will plan, capture and produce photography, animation and/or video assets using advanced equipment, techniques, and software that are the current standard for post-secondary and commercial facilities. Students may arrive in the program with different levels of experience and course completion from their high schools and are matched to an appropriate curriculum at the Centre to complete studies in the

pathway(s) of their choice. If introductory courses have not been completed at the home high school, these may be completed at the Centre, or in coordination with CBe-Learn programs. Teamwork and collaboration on authentic, relevant projects for specific audiences is emphasized, and will culminate in the chance to experience a “real-time” broadcast of these finished projects in the live-production broadcast facility.

Classes and detailed information:

- Introductory (5 credits available)
- Intermediate (10 credits available)
- Advanced (10 credits available)

### Natural Resources | Environmental Studies, Ecology and Conservation

Students will develop the knowledge and skills to be effective decision makers, project planners, participants, and leaders in school and community activities that promote the sustainable use of natural resources.



Students will investigate topics in environmental stewardship, natural resources, and resource management through experiential, project based learning. Students will be encouraged to work collaboratively with fellow students as well as field and industry experts. Projects developed by students involve investigating current uses of natural resources through field-trips and analysis of the local environment, building working sustainable systems such as permaculture living walls and urban

food gardens, and experimenting with possible future sustainable resource and energy systems.

Classes and detailed information:

- Introductory Environmental Studies / Ecology and Conservation (8 credits available)



# Career and Technology Centre

## Pre-Engineering



Students in pre-engineering will access a dynamic, state-of-the-art program that provides students with practical hands-on experiences in an interactive technical lab environment which is supported by a full spectrum of digital resources. Students will work with robotic, pneumatic, electrical, wind, solar, automation, and other technologies to apply their knowledge and skills to solve authentic engineering problems in many fields of engineering, such as electrical, mechanical, chemical, structural, computer, and

environmental. The program is delivered by dual credentialed teacher/engineers. Students will have opportunities to connect with staff and students in the applied technologies program at SAIT to further their understanding of engineering in post-secondary settings.

Classes and detailed information;

- Introductory (25 credits available)
- Intermediate and Advanced (25 credits available)
- <http://www.ct-centre.ca/pre-engineering.asp>

## Welding | Fabrication | Welder Apprentice



Students in Fabrication (welding), will study metal technologies and learn the fine art of design and metal fabrication. Welder apprentices learn the basic knowledge and skills related to the unique techniques of oxy-fuel welding, gas metal arc welding, flux core arc welding, submerged arc welding, shielded metal arc welding, and will work to refine competency in OAW cutting, GMAW, FCAW, SMAW. Students will be

encouraged to engage in pre-apprenticeship courses that will prepare them to challenge the 1<sup>st</sup> year apprenticeship theory and practical exams. When successful, they will be awarded advanced standing in their trade. The Registered Apprenticeship Program (RAP) is also encouraged so hours can be applied towards the journeyman's ticket. There is a \$1,000.00 scholarship for students, details of which will be explained in class.

Classes and detailed information;

- Introductory (10 credits available)
- Intermediate (10 credits available)
- Advanced / Apprentice First Period (17 credits available)
- <http://www.ct-centre.ca/fabrication.asp>





## Career and Technology Centre

### Business Information Technology | Management and Computer Sciences



Students will develop technical skills and theoretical knowledge using state-of-the-art computers, software and networks. Knowledge creation and experiential learning will be used to support two general pathways; Management and Marketing and Computer Sciences. Students will have the opportunity to complete recognized industry credentials associated with the Microsoft Office and Adobe software suites.

Classes and detailed information;

- Introductory (10 credits available)
- Intermediate (10 credits available)
- Advanced (10 credits available)

### Health Care | Medical Sciences



Students will develop specialized skills and knowledge associated with a variety of health care occupations. These include anatomy, physiology and medical based practices. Students will investigate responsibilities of health care occupations and demonstrate communication/observation skills for working in health care related fields. Opportunities for work study and associated credentials are available. Negotiated agreements with post-secondary institutions may provide further

articulation, dual credit or preferred placements in accredits programs of Health Care Aide and Pharmacy Assistant.

Classes and detailed information;

- Introductory (10 credits available)
- Intermediate (10 credits available)
- Advanced – First Responder 1 and 2 (8 credits available)



# Career and Technology Centre

## Learning Commons | Knowledge Creation

The CTC learning commons provides rigorous, academic “learning events” that are designed to facilitate knowledge construction in a wide variety of courses that include core academics.



VIEW FROM SOUTH END

All students have access to the Centre’s Learning Commons. It is a collaborative area that provides high demand technologies, digital and print resources and professional learning supports for student knowledge creation.

While in the learning commons, students will participate in an adult culture that includes industry representatives, teachers, career practitioners, community members, guest educators and career related events. The Learning Commons is also the launch pad from which students may extend their learning beyond the traditional school environment and make the necessary connections to the industries and event that will further engage them in career goals.

High touch, high technology devices required for projects, peer – peer instruction, seminars, research and presentations are available for students at the circulation desk.

