



2025-26 Complementary/Option Course Guide

Aboriginal Studies 10 (fees apply)

Credits: 3

Prerequisite: None

The course is based on perspectives and world views of Indigenous peoples. It includes the study of traditions and history of Indigenous peoples in Canada, and particularly in Alberta. Student learning outcomes provide opportunities to examine such topics as governmental structures, literature, the arts and the sciences. These courses will incorporate Indigenous ways of learning as much as possible, including land-based learning, circle talks, storytelling, hands-on learning, learning from Indigenous elders and knowledge keepers and field trips. The four themes in Aboriginal Studies 10 are: Origin and Settlement Patterns, Indigenous World Views, Political and Economic Organization, and Indigenous Symbolism and Expression. The four themes in Aboriginal Studies 20 are: The Métis: Conflict and Cultural Change, Treaties and Cultural Change, Legislation, Policies and Cultural Change, and Schooling and Cultural Change.

Aboriginal Studies 20 & 30 (fees apply)

Credits: 5 each

Prerequisite: Previous level

Students will gain a greater understanding of the current issues facing Indigenous peoples worldwide. Aboriginal Studies 30 enables students to demonstrate an understanding of the issues of Indigenous rights and self-government, land claims, Indigenous peoples in Canadian society, and Indigenous world issues. These courses will incorporate Indigenous ways of learning as much as possible, including land-based learning, circle talks, storytelling, hands-on learning, learning from Indigenous elders and knowledge keepers, and field trips. The four themes in Aboriginal Studies 30 are: Indigenous Rights and Self-government, Indigenous Land Claims, Indigenous Peoples in Canadian Society, and Indigenous World Issues.

AP European History 35

Credits: 3

Prerequisite: Social Studies 20-1 AP

European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. Offered in alternative years – yes in 2025/26

Architectural Design Introduction (fees apply)

Credits: 5 CTS Modules

Prerequisite: None

Architectural Design Introduction is a way for students to gain an introduction to basic design concepts and skills. The focus of the course is a combination of problem-solving spatial issues, design process, and gaining an effective understanding of design software. Students will work in both Revit and CAD software in their first year. Student projects will include a first spec house to enable students to learn the software and how to read drawings, kitchen & bathroom design, and finally, a culminating project sponsored by the Calgary Regional Homebuilders Association where students will design their own home and compete with other students from across southern Alberta. Winning designs in the contest will result in student scholarships for post-secondary education. Architectural Design Intermediate

Credits: 5 CTS Modules

Prerequisite: Architectural Design Intro

Students in Architectural Design intermediate will build on skills learned at the Intro level. Students will extend their understandings of 2D and 3D Design, as well as a more in depth understanding of Autodesk Revit software. Students will learn to use massing tools to enhance the forms of their projects. Student projects will include working with small spaces (Laneway home designs), commercial buildings (building through massing), as well as entering the BILD – Calgary Region House Design Contest at an intermediate level and gaining feedback from industry professionals during the process.

Architectural Design Advanced (fees apply)

Credits: 5 CTS Modules

Prerequisite: Architectural Design Intermediate

Pathway 1: Architecture Advanced

Architecture Design students continue to develop commercial and residential architecture. The course includes an emphasis on post-secondary options and a future in the field of architecture.

Pathway 2: Industrial Design Advanced

Industrial Design students continue to explore the design process by creating 3D models and working prototypes of their design solutions. Students will experience rapid prototyping using cardboard and 3D printing and will have access to technology such as laser cutters, CNC routers and vinyl printers/cutters.

Art 10 (fees apply)

Credits: 5

Prerequisite: None

Art 10 is a course where students will develop and refine their skills through various forms of art, such as drawing, painting, ceramics, and design. The projects students create will explore the elements of art and principles of design using different styles of expression. Students will also explore how to use the vocabulary of art criticism to develop their visual literacy. This class is designed to be a supportive and collaborative environment where no previous art experience is required, but a desire to learn and an enthusiastic attitude are expected.

Art 20 (fees apply)

Credits: 5

Prerequisite: Art 10

Art 20 is a course where students develop and refine their skills through various forms of art, such as drawing, painting, relief sculpture, and design. The course starts with teacher-directed exercises and projects, then moves on to student developed artwork with more autonomy over concepts, materials, and composition. In these works, students explore what the elements of art and principles of design mean to them and how they can be used to create a personal style of expression. Students also explore how to use the vocabulary of art criticism to develop visual literacy and analyze their own work. This class is designed to be a supportive and collaborative environment where a desire to learn and an enthusiastic attitude are expected.

Art 30 (fees apply)

Credits: 5

Prerequisite: Art 20

Art 30 is designed to provide students with more opportunities for self-discovery and independence. Students will be able to work in various forms of art, such as drawing, painting, sculpture, and design. Students will also have more opportunities to develop personal artwork with autonomy over concepts, materials, and composition, with an emphasis on developing a personal style of expression. While developing their own style they will also explore works of other artists. The development of a portfolio of work useful for application to various post-secondary arts programs is one possible focus of the course. Many students also find that they can use Art 30 as one of the courses needed for post-secondary entrance, even in some fields of study other than Fine Art or Design. This class is designed to be a supportive and collaborative environment where a desire to learn and an enthusiastic attitude are expected.

ASL - American Sign Language 15/25/35

Credits: 3 and 5 for 35 level

Prerequisite: previous level

Note: Offered at Alternative High School

ASL is considered a three-dimensional 'language in motion'. This beautiful, colourful, and complex language has been used throughout North America for centuries. As students learn ASL they will begin to develop an awareness and sensitivity to cultural and linguistic diversity as well as an appreciation for preserving cultural identity. This course will also provide students with the opportunity to identify, question, and challenge their cultural assumptions, values, and perspectives as they explore ways to contribute positively to society.

Autobody Introduction (fees apply)

Credits: 5 CTS modules

Prerequisite: None

Note: Offered at CT Centre

Students work on one vehicle panel (hood, fender, and/or door). Instructors create physical heavy damage that students will repair throughout the semester. Students will learn the following skills in this course: Damage Analysis, Metal cutting, repair and shaping, Grinding/Sanding, Body filler, Primer, Wet-sand and polish, and Workplace Safety

Autobody Intermediate (fees apply)

Credits: 5 CTS modules

Prerequisite: Autobody Intro

Note: Offered at CT Centre

Students will learn more advanced repair techniques to prepare for work in customer service using the following skills: Estimation, Damage analysis, Repair of multiple panels at once rather than one panel, Prime/Refinish semi-independently, Custom panel fabrication, Frame straightening, and Professional paint jobs after customer work has been completed, simple short repairs may be allowed on student vehicles.

Autobody Advanced (fees apply)

Credits: 5 CTS modules

Prerequisite: Autobody Intermediate

Note: Offered at CT Centre

Customer work is the focus of the course. The course goes more into depth about the structural integrity of automobiles, damage analysis, glass, and heavy damage repair. At this level, students take a complete car and repair it in a short amount of time. Projects at this level include structural welding of automotive sheet metal, building replacement panels, and custom paint jobs. After customer work has been completed, repairs to a student vehicle may be allowed.

Autobody Credential (Application & teacher approval – fees apply)

Credits: 10 (2 blocks)

Prerequisite: Autobody Advanced

Note: Offered at CT Centre

Also known as the Auto Body Apprenticeship group. Expectations are significantly higher for this class because of the professional nature of the work and the demands of first-year exam. Customer work is paramount along with direct instruction through the post-secondary module and book work. The focus will be directed on the modules required for study and the skills that are expected from them. Students will prepare themselves for the writing of the first-year auto body apprenticeship exam at an Alberta Industry and Training Centre. Potential students must be highly motivated to take their learning to the next level as they are working through post-secondary material. Attendance in this class is watched closely as students will be performing as if they were working in a true shop environment. Students should be comfortable performing certain work tasks independently.

Students will prepare themselves for the writing of the first-year auto body apprenticeship exam.

Band: Introduction, Intermediate, Advanced *(fees apply)*

Credit: 10 each level

Prerequisite: 1-yr experience on your chosen Instrument, or by permission of the teacher

Instrumental Music 10/20/30 (5 credits) - Semester 1

Band 15/25/35 (5 credits) – Semester 2

Students in Band will study Flute, Oboe, Clarinet, Bass Clarinet, Alto, Tenor, or Bari Sax, Trumpet, French Horn, Trombone, Euphonium/Baritone, Tuba, or Percussion.

Students are responsible for providing an instrument for all band classes. Cost-effective rentals are available through the CBE.

Open to all students, Standard Band is a 10-credit course bundle that meets every day within the timetable for both semesters, with no after or before school component. Students will learn foundational techniques on their instruments, will perform as both a concert band and a “pep band,” and will have opportunities to work with local professional musicians. Travel to festivals and tours may be available for an additional fee.

Business Studies 10, 20, 30 *(fees apply)*

Credits: 5 CTS Modules

Pre-requisites: previous level

Business Media is an interdisciplinary course that merges creativity with entrepreneurship by combining modules from the Media Design & Communication (MDC) and Business, Administration, Finance & Information Technology (BIT) clusters of Alberta Education’s programs of study. This course provides students with hands-on experience in launching and managing a media-based business while developing essential branding, marketing, and design skills.

What You’ll Learn:

- The fundamentals of media design, including graphic design, photography, videography, and digital content creation.
- Business planning, financial management, and marketing strategies for launching a media-based company.
- Brand identity development, including logo design, messaging, and digital presence.
- Professional production techniques to create high-quality media products.
- E-commerce strategies for pricing, selling, and distributing products.

Project-Based Learning:

Throughout the course, students will conceptualize, create, and brand their own media design business, culminating in the production and sale of professional-quality products. They will gain real-world experience in entrepreneurship, from business ideation to product launch.

Who Should Take This Course?

Business Media is ideal for students interested in graphic design, digital marketing, video production, photography, and entrepreneurship. Whether you dream of starting your own creative business or simply want to enhance your design and business skills, this course provides the tools and experience to bring your ideas to life. By the end of the course, students will have built a personal brand, developed a portfolio of work, and gained valuable experience in running a media-based business.

Computing Science 10 (fees apply)

Credits: 5

Prerequisite: None

The computer science pathway provides students with the opportunity to develop a comprehensive set of in-demand 21st-century competencies. This course introduces students to computer programming. Students will explore hardware, software, and the Internet, create webpages out of HTML and CSS, and write simple structured algorithms and programs using Snap, p5.js, and Java programming languages.

Computing Science 20 (fees apply)

Credits: 5

Prerequisite: Computer Science 10

This is an intermediate programming course where students extend their knowledge of computer programming. Students continue to explore hardware and software and write algorithms and programs with more complex data structures and custom methods using the Java programming language.

Computing Science 30 (fees apply)

Credits: 5

Prerequisite: Computer Science 20

This is an advanced programming course where students continue to develop their mastery of programming concepts using Java. Students write algorithms and programs that focus on demonstrating iterative algorithms, recursion, and object-oriented programming using the Java and Python programming languages. Note: Alberta universities accept the five credits from this course as a 30-level science requirement. Students will have the opportunity to complete AP computer science material and are provided with the details to self-register for the AP exam.

Construction 10 (fees apply)

Credits: 5 CTS Modules

Prerequisite: none

Students learn the basic skills and techniques of the construction industry. Students learn safe work habits through hands-on practice. A variety of small pieces of millwork or furniture construction provides experience and allow for students to integrate basic skills.

Construction 20 (fees apply)

Credits: 5 CTS Modules

Prerequisite: Construction 10

Students gain further experience in methods, procedures, and machine tool technology while working on furniture and cabinet projects.

Construction 30 (fees apply)

Credits: 5 Modules

Prerequisite: Construction 20

Students will have the opportunity to further develop their skills in furniture, cabinet construction, as well as light construction techniques. The course plan for each student will reflect the individual interest of the student's construction as well as light construction techniques.

Concert Choir 15/25/35 (fees apply)

Credits: 5 credits each

Prerequisite: Previous level

Extended timetable AM – Semesters 1 & 2

Students in the open to all Concert Choir, have the opportunity to develop their musical leadership through the study and performance of music from different genres with like-minded people. This choir is designed to challenge and broaden students' understanding of sung repertoire and techniques. Students will have the opportunity to be involved in the performance within the community to share their love of singing, music, and learning. This ensemble is open to all students in grades 10-12 who want to sing, regardless of prior experience. The choir community will help all prospective singers become confident members of the Concert Choir by our first performance. *Travel with the Concert Choir to festivals and tours may be available for an additional fee.

Cosplay 10 (fees apply)

Credits: 5 CTS Modules

Prerequisite: None

Students develop knowledge related to clothing design through the construction of costumes and character accessories. Developing sewing construction skills will be the focus of the course. All students registered in this program are required to supply the necessary materials for their costume project completion.

Cosplay 20 (fees apply)

Credits: 5 CTS Modules

Prerequisite: Fashion or Cosplay 10

The Intermediate program is a continuation of Cosplay Introductory. Students will further develop sewing skills by working with specialty fabrics and notions in the construction of custom costumes and accessories.

Cosplay 30 (fees apply)

Credits: 5 CTS Modules

Prerequisite: Fashion or Cosplay 20

The Advanced program is an exciting 'must' for the student who is keenly interested in clothing construction and costume design. Custom finishing and details on costumes are emphasized. Contemporary tailoring techniques and custom pattern design for costumes are introduced.

Cosmetology (fees apply)

Introductory (5 - 10 credits)

Prerequisite: None

Note: Offered at CT Centre

At the introductory level, students discover their specific area of interest and examine the opportunity to take a full Hairstylist Program and/or Esthetics Specialization.

Students will develop skills and knowledge in a dynamic, full-service salon/spa customer service center.

Students will progress through the Introductory, Intermediate and Credential programs that are personalized to the individual student's desired results.

Cosmetology is an excellent introduction to many careers that include hairstylist, esthetician, educator, instructor, sales representative, platform artist, and entrepreneur.

Students will explore all aspects of the professional beauty industry including hairstyling, hair color, extensions, competitions, hair cutting/styling, facials, makeup, waxing, pedicures, manicures, nail art, and gel gloss nails.

Intermediate (10 credits toward Credential program)

Prerequisite: previous levels

Advanced (5 credits 30 level)

Credentialed Hairstylist (48 Credential credits)

Esthetics Certificate (38 credits)

Creative Writing and Publishing 15/25/35

Credits: 5 credits each

Prerequisite: Previous level

Creative Writing and Publishing is a course where students may pursue their passion for writing. Students are encouraged to experiment with new ideas and concepts and manage their own portfolios of writing.

Students will explore and learn about various writing markets. Through participating in the actual publication process, students will be provided an authentic realistic experience. Creative Writing and Publishing is divided into three main units: Short Stories, Poetry, and either Non-Fiction or Script Writing. Each unit will blend the genre topics with the editing and publishing techniques that contribute to building students' critical writing skills. All units lead to a Final Writing Project.

Dance 15 (fees apply)

Credits: 5

Prerequisite: none

Dance 15 provides opportunities to study various forms and aspects of dance. These may include Jazz, Hip Hop, Funk styles, Modern, Tap, Creative, ethno cultural, choreography, anatomy and dance history. Classes are structured to focus on individual improvement in strength, technique, flexibility, and style. Students will have the opportunity to develop the technical skills necessary to create, perform, and analyze dance. A performance opportunity during the term will provide the challenge necessary for students to develop confidence and stage presence.

Dance 25 (fees apply)

Credits: 5

Prerequisite: Dance 15

Dance 25 offers students the opportunity to further expand their dance skills and knowledge of dance. Genres of dance explored may include Jazz, Hip Hop, Funk styles, Tap, Modern, Creative, Ethno cultural, choreography, anatomy, and dance history. Classes are designed to focus on strengthening previously developed skills in technique, strength, flexibility, and style. Students will have the opportunity to further develop the technical skills necessary to create, perform and analyze dance. Performance opportunities during the term will provide the challenge necessary for students to develop confidence and stage presence.

Dance 35 (fees apply)

Credits: 5

Prerequisite: Dance 25

Dance 35 offers students with a strong interest in dance the opportunity to further expand their skills and knowledge. Genres of dance explored may include the study of Jazz, Hip Hop, Funk styles, Ballet, Tap, Modern, Creative, Ethno-cultural, choreography, anatomy, and dance history. Classes are designed to focus on developing advanced skills in technique, strength, flexibility, and style. Students will have the opportunity to further develop the technical skills necessary to create, perform, and analyze dance. Performance opportunities during the term will provide the challenge necessary for students to develop confidence and stage presence.

Drama 10, 20, 30 (fees apply)

Credits: 5 each level

Pre-requisites: previous level

Drama 10, 20 and 30 offer students a wide variety of creative and expressive opportunities. The basic skills of concentration, discipline, teamwork, communications and self-esteem are established in all levels of the course. Classes are designed to focus on individual improvement in the disciplines of movement, voice, character development, scene study and structure. Further venture into tech, improvisation, and script work is also developed within all levels of the course. The basic skills of performing and audience awareness are explored in this hands-on, creative course. Emphasis is placed on character development, acting, play writing and collective style plays. At the 30 level, students are given the opportunity to explore individual directing projects, theatre studies, technical theatre and design.

Energy & Environmental Innovation (EEI) 10/20/30 (fees apply)

Credits: 5 each level

Pre-requisite: previous level

Note: Offered at CT Centre

Students will learn how to become innovative change-makers in both their community and their future industries. Students will be exposed to a range of issues, skills and technologies in fields related to:

- Transitions to alternative and renewable energies
- Wildlife and biodiversity habitat conservation
- Local food and urban agriculture production
- Community development and urban planning
- Climate change
- Stewardship of protected lands
- Sustainable architecture
- Water and waste management

The course is designed to be experiential for students. Each semester there are several field-study trips offered where students will travel to work with industry experts in the fields mentioned above. Students will experience the outdoors as a key component to the class.

The rest of the course takes place within an interactive lab setting. Students take care of various gardens, living walls and fish tanks while also working on habitat construction, water, soil and core-rock testing and building design processes.

Once students have been immersed in this broad range of topics, they will have the opportunity to innovate new technology, policies, educational programs or designs meant to improve our society economically, socially and environmentally.

Environmental Science 35AP (fees apply)

Credits: 5

Pre-requisite: Bio 20 & Math 20-1 or 20-2

Note: Offered at CT Centre

The topics covered in this course will include population dynamics, land and water use (related to agriculture, forestry, mining, fishing, urban development, and global economics), earth sciences and soil sciences, ecosystems, energy resources and consumption, global change, and pollution. Students considering this course should demonstrate an interest in environmental sciences, a willingness to research, collaborate, and participate in fieldwork (outdoors), and the ability to work independently when necessary.

Fabrication (Welding) Introduction, Intermediate, Advanced (fees apply)

Credits: 5 CTS credits

Prerequisite: None

Note: Offered at CT Centre

Students in Welding will study metal technologies and learn the fine art of design and metal fabrication. Explore and pre-apprentice students learn the knowledge and skills related to the unique techniques of: oxy-fuel welding and cutting, gas metal arc welding, flux core arc welding and shielded metal arc welding. Advanced students will be encouraged to engage in pre-apprenticeship courses that will prepare them to challenge the 1st year apprenticeship theory and practical exams.

Classes and detailed information:

Introductory (5 CTS credits) single block

Intermediate (5 CTS credits) single block

Advanced (5 CTS credits) single block

Credentialed (15 CTS credits) double block only & Application form required

Fashion Studies Introduction (fees apply)

Credits: 5 CTS Modules

Prerequisite: None

Students develop knowledge related to clothing and textile design. Developing sewing construction skills will be the main focus for each of the courses. All students registered in this program are required to supply necessary materials for project completion.

Fashion Studies Intermediate (fees apply)

Credits: 5 CTS Modules

Prerequisite: Fashion 10

The Intermediate program is a continuation of Fashion Studies Introductory as students will further develop sewing skills by working with specialty type fabrics and notions.

Fashion Studies Advanced (fees apply)

Credits: 5 CTS Modules

Prerequisite: Fashion 20

The Fashion Advanced program is an exciting 'must' for the student who is keenly interested in clothing construction. Custom finishing and details on garments are emphasized as well as contemporary tailoring techniques are introduced.

Film and Media Art 15, 25,35 (fees apply)

Credits: 5 each level

Prerequisite: Previous level

Film and media art engages students in a comprehensive analysis of the history and evolution of filmmaking. Students will pursue the production and technical perspectives of film in order to become informed consumers of film in its various forms: feature film, short film, animation, featurettes, serials, television shows and commercials. Film and media art will build intellectual, technical and artistic awareness in the students.

Foods: Culinary Arts (fees apply)

Credits: 5 CTS Modules

Prerequisite: None

Note: Intro Offered at Central Intermediate & Advanced Offered at CT Centre

Introductory

Culinary Arts is a competency-based program of studies to help students explore the Hospitality industry in a live-action setting including front of house (customer service at school cafés, marketing assignments and in-house event management) and back of house (food production, inventory and specialized labs). Regular attendance is necessary for success in culinary arts.

Introductory students will work with the Foods program of studies as an introduction to the kitchen, while specialized students can work on a blended program of Foods, Cook Apprentice and Baker Apprentice modules. All food production will be based on classical cooking principles influenced by current trends in food style and flavours. Students rotate through five areas of preparation and production: hot foods, cold foods, bakeshop, butchery and hospitality. Students will have access to an industry-grade food service production and service outlet facility (Edibles Café and Central Cafeteria), led by journey person cooks and teachers.

Intermediate (10 CTS credits available)

Advanced (10 CTS credits available), double block recommended

Credentialed (16 CTS credits - directed by AIT), double block only (by teacher approval)

Students who choose to move beyond the core culinary program and start an official apprenticeship will need to apply for a position at the CTC and sign a contract with Alberta Apprentice and Industry Training (AIT). Cook Apprentice and Baker Apprentice students need to complete 16 credits for the formal training component of the program, acquire a blue book for industry hours and sign up for the first term exam at the AIT office.

Forensic Studies 25 (fees apply) *New 2025-26*

Credits: 3 (1 term)

Pre-requisite: Science 10 or 14

Students will investigate and evaluate the processes involved in the collection and preservation of crime scene evidence. As students delve into forensic studies, they will investigate and analyze the strengths and limitations of forensic evidence analysis. This course sequence focuses on the ethical considerations involved in the use of forensic evidence. As well, students will explore a variety of occupations and potential career opportunities in the field of forensics.

French as a Second Language 10-3Y

Credits: 5

Prerequisite: None

This is a beginner course for students who have little to no French background. In this introductory course, students will learn basic grammar, vocabulary and expressions. Typical units include introductions, family, school, likes/dislikes, weather/seasons, pastimes & hobbies. Using this knowledge, they will be able to express themselves orally and through written texts in simple and clear contexts. Throughout the various units and diverse activities, students will also learn about French & francophone cultures.

French as a Second Language 20-3Y

Credits: 5

Prerequisite: French 10-3Y (or Junior high FSL)

This intermediate course will build on the basic vocabulary and grammar acquired in French as a Second Language 10. Students will participate in more complex conversations and written communication. Some areas of study include food, fashion, professions, and sports. Conversations will progress from present to more complex verb tenses. Students will continue to incorporate activities related to French & francophone culture in each unit.

French as a Second Language 30-3Y

Credits: 5

Prerequisite: French 20-3Y (or prior French Immersion)

This advanced course is for students who wish to build on fluency and ease of communication in French. Knowledge and language competencies from FSL 10 & 20 will be strengthened and incorporated into new content in FSL 30. Topics in the course include the home, the arts, the world we live in & the environment, travel, etc. Classroom instruction will be primarily in French. Students will continue to deepen their understanding of culture and current French contexts. Note: Native French speakers must register in French 30-9Y

Guitar 15

Credits: 5

Prerequisites: personal guitar

Students interested in learning to play the guitar can enroll in Guitar 15 to explore a new instrument and develop a lifelong skill that will come in handy more often than you'd think! The school does not provide guitars for rent, and so students interested in this course must provide their own suitable guitar (acoustic or classical preferred, electric guitars are acceptable but will not be played with an amp in class.)

Guitar 25/35

Credits: 5 each level

Prerequisite: Guitar 15/25

Students interested in continuing their study of guitar technique and adding to their catalogue of songs can continue in Guitar 25 or 35. As students advance, they will undertake more independent and group projects, including basics of recording and live performance.

IT Essentials Introduction *New 2025-26*

Credits: 5 CTS Modules

Prerequisite: None

IT Essentials will take place in the newly renovated lab space at the CTC, where students will learn about hardware assembly and disassembly, software installation, computer operations (i.e. building and securing networks), and diagnostics (i.e. exploring PC, network, and database vulnerabilities). This course aims to give students a head-start in a high-demand and high-paying field that offers many specialization and advancement opportunities.

The IT Essentials course focuses on the following topics:

- Computer Systems: Developmental history, Systems Architecture, Hardware, Software, Operating Systems (Windows/Linux)
- Computer Networks: Types of networks (LAN, WAN) Topologies, Standards (Ethernet, Wi-Fi, Bluetooth), Protocols (TCP/IP, HTTPS)
- Cybersecurity: Threats, Network Security, Ethical Hacking
- Databases: Flat-file Databases, Relational Databases, SQL
- Web Development

Legal Studies Introduction

Credits: 5 CTS Modules

Prerequisite: None

Legal Studies Introduction comprises five one-credit modules (Public Law, Private Law, Family Law, Environmental Law, and Employment Law). Throughout the course, students will: discover how changes in societal values foster governmental bills, uncover the steps involved in creating new laws, explore the different levels of the Canadian court system and how the appeal process works, learn an overview of various branches of law, analyze landmark and precedent- setting cases and how they changed the Canadian legal landscape, participate in class discussions and debates, and learn from various guest speakers.

Legal Studies Intermediate and Advanced

Credits: 5 CTS Modules

Prerequisite: Previous levels

Legal Studies Advanced is comprised of five one-credit modules (Criminal Law, Negligence, Landmark Decisions, Controversy and Change, and an independent legal research project). Throughout the course, students will: explore the different levels of the Canadian court system and how the appeal process works, study in-depth criminal law, tort law, and constitutional law, as well as relevant cases pertaining to these branches of law, analyze various Supreme Court rulings and how they paved new precedents for the Canadian Charter of Rights and Freedoms and the Criminal Code of Canada, explore how shifting societal values are creating controversial changes in the judicial system, participate in a field trip to the Calgary Courts Centre, learn from various guest speakers.

Mechanics Introduction (fees apply)

Credits: 5 CTS Modules

Prerequisite: None

Students will begin by exploring the safe use and care for shop equipment and hand tools. Modules include Engine Fundamentals, Vehicle Service and Care, Electrical Fundamentals, Pneumatics and Hydraulics, and Braking Systems. Students will study various topics such as: tire equipment, vehicle hoists, welding equipment, disassembly, inspection and reassembly of 200cc 4-stroke engines, oil changes, vehicle electrical systems, the art of soldering and crimping, basic electrical measurements, and more.

Mechanics Intermediate (fees apply)

Credits: 5 CTS Modules

Prerequisite: Mechanics Intro

Students begin this course by developing skills that will allow them to take care of their vehicle's appearance. Students will learn how to wet sand, power polish and wax vehicle paint. They will then learn how to clean interiors, and under hoods of vehicles. Modules also include Braking Systems, Vehicle Maintenance, Lubrication and Cooling Systems, and Vehicle Electrical Systems. Students will study various topics such as: replacing brake pads and shoes, hydraulic components and bleeding the systems, maintenance and servicing of automotive systems, transmissions, transaxles, differentials, under-hood fluids, oil pressure tests, cooling system pressure testing, alternators, starters, and batteries.

Mechanics Advanced (fees apply)

Credits: 5 CTS Modules

Prerequisite: Mechanics Intermediate

Students begin this course by exploring the diagnosis and servicing of fuel systems, ignition systems, charging and starting systems. Students will learn how to use specialized diagnostic and testing equipment to determine the mechanical condition of an engine. In the module Engine Diagnosis, students will conduct lab stations that will have them begin to use a strategy-based diagnostic approach when diagnosing misfires due to faulty ignition, fuel, and mechanical systems. The remainder of the course focuses on engine design and systems. Students will learn the theory behind repairing, and servicing of cylinder heads, engine blocks and engine removal.

Media Communication: Introduction, Intermediate, Advanced (fees apply)

Each level: 5 CTS Modules

Pre-requisite: Previous Level

Note: Offered at CT Centre

Students of the Media Communication Arts Program have the opportunity to explore media production in a purpose-built studio and editing lab that supports multi-track, multi-camera collaborative production, as well as field production opportunities, including live events.

Students will plan, capture and produce film, video, animation and photojournalism assets using advanced equipment, techniques, and software that are the current standard for post-secondary and commercial facilities. While doing this they will have the opportunity to consult and receive feedback from industry professionals and become aware of related career opportunities in their media of choice.

Outdoor Pursuits: 10/20/30 (fees apply)

Each level: 5

Pre-requisite: Previous Level

This is a module-based course intended to develop skills and understandings pertaining to a variety of outdoor and environmental topics. Key components of the course will include environmental stewardship and appreciation for wild spaces, wilderness travel skills, group dynamics and teambuilding, leadership responsibilities, and a variety of related knowledge and skills. Students will organize, plan and execute trips to put theory into practice. Materials covered in class will be reinforced through participation in planned outings. Possibilities will include backpacking, cycling, snowshoeing, rock climbing and canoeing/kayaking.

Pre-Engineering Introduction, Intermediate, Advanced (fees apply)

Credits: 5 CTS Modules each

Pre-requisite: Previous Level

Note: Offered at CT Centre

Students in Pre-Engineering access a state-of-the-art program that provides practical hands-on experiences supported by a range of digital resources. Pre-Engineering involves exploring design and engineering principles through various technologies such as robotics, CAD, rapid prototyping (3D printing, CNC), fluid dynamics, electrical, solar, wind, heat transfer, automation, and/or other technologies. Students will apply their knowledge and skills to solve authentic problems in various fields of engineering such as electrical, chemical, structural and environmental. At the end of term, students will complete a masters engineering project from initial design phase to prototype in small collaborative groups.

Class Structure: • Introductory (single block) • Intermediate (single block, double block with teacher consult) • Advanced (single block, double block with teacher consult)

Physical Education 20 (fees apply)

Credits: 5

Prerequisite: Physical Education 10

The aim of Physical Education 20 is to enable students to develop the knowledge, skills, and attitudes necessary to lead an active, healthy lifestyle. The program emphasizes active living, with a focus on physical activity that is valued and integrated into daily life. Through activities in the school and community, students explore what they are capable of and improve their physical abilities, enjoying better fitness and well-being. Students develop a sense of fair play and exercise their leadership abilities. They will understand the importance of safe, active living for life; and set goals and challenge themselves as part of an active, healthy lifestyle.

Physical Education 30 (fees apply)

Credits: 5

Prerequisite: Physical Education 20

The aim of Physical Education 30 is to continue to strengthen the knowledge, skills, and attitudes necessary to lead an active, healthy lifestyle. The program emphasizes active living, with a focus on physical activity that is valued and integrated into daily life.

Through activities in the school and community, students will explore what they are capable of and improve their physical abilities, enjoying better fitness and well-being. They will develop a sense of fair play and exercise their leadership abilities. Students will understand the importance of safe, active living for life. and set goals and challenge themselves as a part of an active, healthy lifestyle. In addition to these outcomes which are included in Physical Education 20, there is an emphasis on exposure to a wide variety of alternative activities that can be found in the community. A focus is the development of passion around activity after high school completion as well as understanding around the facets of a balanced and healthy lifestyle. ***Some university programs will accept Physical Education 30 as part of the entrance requirement.

Psychology - Personal & General Psychology 20

Credit: 6 (3 each)

Prerequisite: None

General Psychology 20 covers the memory cycle, learning strategies, creative ways to solve problems, as well individual and group interactions. It also covers Psychological Disorders and Psychology related careers. Personal Psychology covers theories of development from infancy through to adulthood. It also covers theories on personality, perception as well as brain development and how all these developments impact human behaviour.

Sociology 30/Psychology (Experimental Psychology & Applied Sociology)

Credits: 6 (3 each)

Prerequisite: none

This course consists of two 3-credit modules; Experimental Psychology 30 and Applied Sociology 30. Experimental Psychology 30 provides an overview of the scientific experimentation process in the field of psychology. Students explore research ethics, basic statistical analysis and data interpretation before designing and conducting their own independent research project. Topics also include APA formatting, creating survey questions, collecting, analyzing and interpreting data, writing a research proposal, and developing public speaking skills. Applied Sociology 30 is the study of social behavior and human groups. Students explore social patterns and structures by studying culture, social stratification and inequality, deviance, collective behavior, social change, and social movements. Topics also include social institutions, media and its effects on society, intersection of biography and history, and the role of human agency in social change.

Spanish Language and Culture 10/20/30

Credits: 5 each level

Prerequisite: Previous Level

The Spanish Language and Culture three-year Program is intended for those students with little or no previous experience in Spanish. There is a focus on all four skills necessary to communicate in a new language: speaking, writing, listening, and reading. The program is designed to promote Spanish language learning through a variety of linguistic and cultural experiences.

Interested Spanish 30-3Y students may also have the opportunity to earn a DELE diploma (Diploma de Español como Lengua Extranjera). Students who have completed a three-year program in junior high school must register in Spanish 30 9-Y. **Native Spanish speakers must register in Spanish 30 9-Y or challenge the course.**

Sports Medicine 15/25/35 (fees apply)

Credits: 5 CTS Modules each level

Prerequisite: Previous Level

In this module-based course, students will learn about the various topics associated with sports medicine. Instructional methods will include lecture, problem solving, guided discovery, laboratory work, independent research, computer technology and acquired skills for field/practical situations. Students are required to complete 20 extracurricular service hours working with Central athletic teams and events. There are additional school fees for Sports Medicine courses.

Sports Performance 15/25/35 (fees apply)

Credits: 5 CTS Modules each level

Prerequisite: Previous Level

This module-based course is designed for students that are interested in becoming healthier, fitter, and/or improving their athletic performance. Approximately 80% of the learning is through physical and mental training and 20% through classroom/lab work. Examples of physical training days include but are limited to: 3 km run, circuit training, hills, stairs, bicycling in city pathways, resistance training, interval training, flexibility training, yoga, and fitness assessment. Examples of mental training include breathe work, visualization, progressive muscle relaxation, and goal setting. Students will track their progress and learning in a training journal.

Strings 10 Beginner (fees apply)

Credits: 5

Prerequisite: Instrument

Students in Orchestra study violin, viola, cello, or double bass. Students are responsible for providing an instrument for all orchestral string classes. Cost-effective rentals are available through the CBE

Open to all students, the Beginner String Technique is for students who have never played a string instrument to learn the fundamentals of playing violin, viola, cello, or double bass. This course is for students who have never studied music, as well as for students who have studied music in the past but wish to learn a new instrument. This course will start from the beginning by teaching the fundamentals of reading string music, fundamental techniques, and how to make music with others. Students will experience live performance during the semester as a way to provide the challenge necessary to develop confidence. Students successful completion of the Beginner Strings are invited to continue in the second semester with the Beginner String Ensemble which runs in the extended timetable outside block during Semester 2

Strings Ensemble 15, 25, 35

Credits: 3

Prerequisite: Beginner Strings or 6 months
experience on violin, viola, cello or double bass

Extended timetable AM and PM – Semester 2

This class is designed as an extension to the Beginner String Technique course offered in the first semester. String Ensemble is meant as a place for students new to being in an orchestra to develop their skills and learn how to perform in an ensemble. We will continue our work developing instrument technique from where Beginner String Technique left off, while exploring novice orchestra music from the diverse world of string repertoire from classical to video game music and beyond. Students will continue to experience live performance during the semester as a way to provide the challenge necessary to develop confidence.

Students who are successful in String Ensemble may go on to register for Strings Introduction and Orchestra

Strings Introduction, Intermediate, Advanced (fees apply)

Credits: 10

Prerequisite: 1 yr prior experience on your chosen string instrument, or by permission of the teacher.

Students in Strings will continue to learn foundational technique on their instrument (violin, viola, cello, or double bass), while learning more about music within our community and the wider world. This course is designed for students still developing the confidence and skills required to begin to perform and understand music at the high school level. Students will acquire the skills needed to compose music for their instruments, perform in small groups, hear and interpret music in new ways, and will have opportunities to work with local professional musicians.

Students who successfully complete Strings introduction may choose to continue at the Intermediate and Advanced level as their co-requisite for String Orchestra or may transition into the PVA Strings class with teacher permission.

Technical Theatre 15/25/35 (5 credits)

Credits: 5 CTS Modules

Prerequisite: Previous levels

Extended timetable PM – Semesters 1 & 2

Each semester our school offers Theatre Productions, Dance Productions, Open House, PVA Gala Night, Community Rentals and conference meetings that occur after a regular school day schedule. These events require skilled technicians to provide support with: audio, lighting, multi-media, costumes and make-up, sets, props, stage management, and front-of-house management. Each Technical Theatre student can earn 3-credits for 1 semester of 5-credits for 1-year.

Technical Theatre Design Introduction

Credits: 5-10 CTS Modules

Prerequisite: None

This introductory course will ensure that students become knowledgeable of the extensive audio and lighting equipment, set pieces, costumes, and props in our storage facilities. They will also learn the foundation of the design process as they create an immersive experience that explores the themes of our mainstage productions. They will also contribute to designing and helping to build and all the components of our productions and events. This process will require students to be skillful with composition, construction, multi-media installation, cue programming, graphics, sound design, and technical implementation of all these elements.

Technical Theatre Design Intermediate

Credits: 5-10 CTS Modules

Prerequisite: Technical Intro

Building upon the skills and knowledge at the Introductory level, the Intermediate Technical Theatre students will be responsible for managing and utilizing our extensive inventory of audio and lighting equipment, sets, props, and costumes. Intermediate students will be helping the advanced students with designing all aspects of our school events and productions and working with the introductory students to become technically responsible for ensuring that the designs are realized and implemented across all areas of technical theatre in all productions and events.

Technical Theatre Design Advanced

Credits: 5-10 CTS Modules

Prerequisite: Technical Intermediate

Our advanced students will be effective and creative leaders within our technical theatre crew that are responsible for all designs and implementation of their designs. This responsibility will require our advanced students to work extensively with our production directors and event coordinators to ensure that all technical aspects are planned, designed, created, and implemented by our Technical Theatre crew.

Vocal Introduction, Intermediate, Advanced (fees apply)

Credits: 5 credits each

Prerequisite: Previous level

In Vocal Music 10/20/30, students will explore and study different vocal techniques to better understand their own respective vocal instrument. Students will work within their own voice type to understand musical collaboration and solo repertoire. Concert Choir 15/25/35 is a recommended course that takes place in the extended timetable.

Women In Trades 10 (fees apply)

Credits: 5

Pre-requisite: None

Women's Construction, Renovation & Car Maintenance

This class has been created for young women to be introduced to the trades in a non-threatening environment to develop a knowledge and love of working with their hands to either benefit them in their personal or professional lives in the future. Students will gain experience in carpentry and automotive maintenance. Students will learn trade skills and be able to make informed decisions regarding pursuit of a future in the trades.

Yoga 15 (fees apply)

Credits: 3

Pre-requisite: None

Yoga 15: With a focus on fitness, health and wellness, this class will enlighten students on how to take better care of themselves; physically, mentally, and nutritionally. They will establish an awareness of the breathing/relaxation methods of yoga and how to safely execute basic yoga postures. It will also give students an understanding of basic anatomy and physiology as it applies to the discipline. The program is designed to allow students to experience the benefits of increased flexibility, strength, focus, concentration as well as the ability to relieve stress and anxiety. Students will have the opportunity to try many different styles of yoga, including but not limited to; Partner, Acro, Aerial, Ashtanga, Yin, Power vinyasa, Restorative, Iyengar, flows, fitness fusions, arm stands and inversions.

Yoga 25 (fees apply)

Credits: 3

Pre-requisite: Yoga 15

Students will continue to deepen their study and practice of yoga. They will build on the fundamentals of yoga by incorporating alignment, foundation, and breath to their movement. Intermediate postures (including variations and modifications) will be practiced. Basic anatomy and physiology of yoga will be discussed and applied.

Yoga 35 (fees apply)

Credits: 5

Pre-requisite: Yoga 25

Students will be introduced to more advanced postures as they continue to deepen their study and practice of yoga. As they explore the teaching side of yoga, they will become familiar with sequencing poses together as well as learn the components of a yoga class.

Unique Opportunities: Dual Credit, Exploratory & Off Campus Programs

Dual Credit Programs

Credits: 5 High School & 3 Post Secondary

Pre-requisite: Varies

These programs are designed for high school students who are interested in specific career areas and would like to work towards post-secondary and/or workplace certifications, while still attending high school.

Exploratory Programs

Credits: Varies

Pre-requisite: HCS3000&HCS 3010

These programs are designed for high school students who are interested in a skilled trade and would like to work with a journeyman, in order to explore the trade and earn both workplace certifications and high school credits.

Green Certificate Program

Credits: 15

Pre-requisite: AGR 3000

Green Certificate is an apprenticeship-style program designed for young people interested in the agricultural industry. Students learn & train under the direction of experienced farm personnel, while earning high school credits and obtaining certification from Alberta Agriculture and Forestry.

Registered Apprenticeship Program (RAP)

Credits: 5 every 125 hrs worked

Pre-requisite: HCS 3000

The RAP program is designed for high school students who want to begin training in a trade of their choice, work towards becoming an indentured apprentice, and earn credits towards their high school diploma.

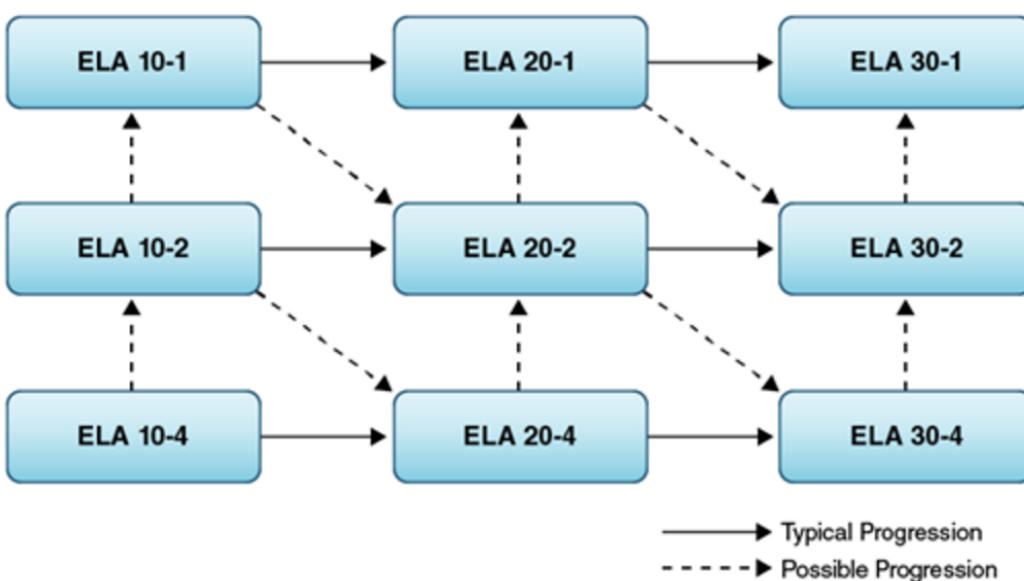
Work Experience Program

Credits: 1 every 25 hrs worked (3cr minimum to a max of 15)

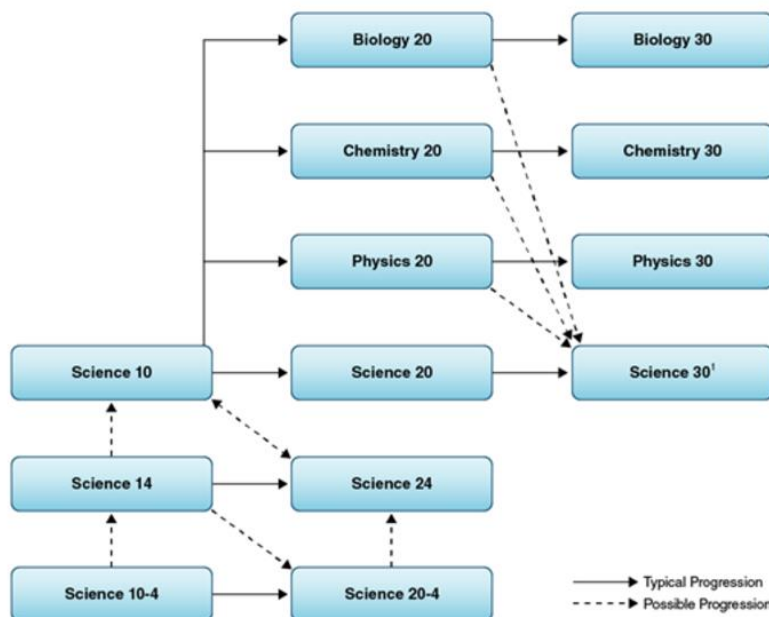
Pre-requisite: HCS 3000

Work Experience is available to high school students who are already working or volunteering and want to earn credits towards their high school diploma.

English Language Arts (ELA) Program



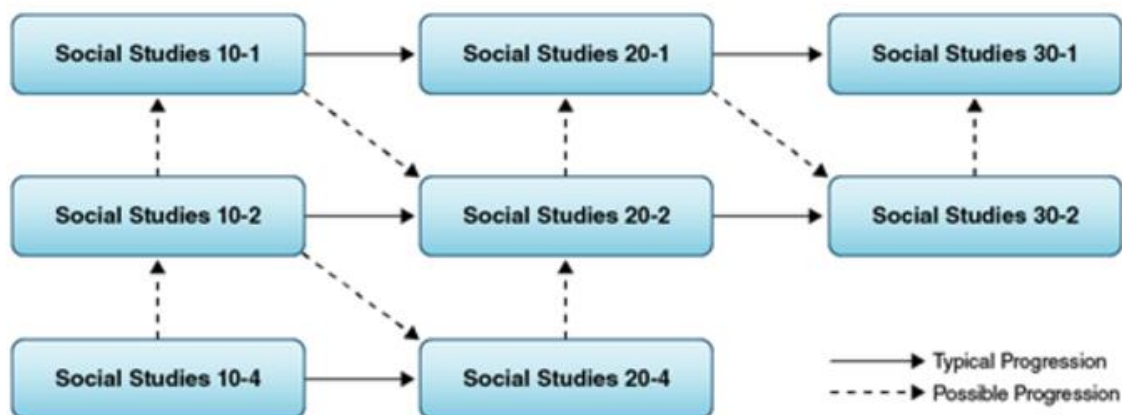
Science Program



(Each course is 5 credits.)

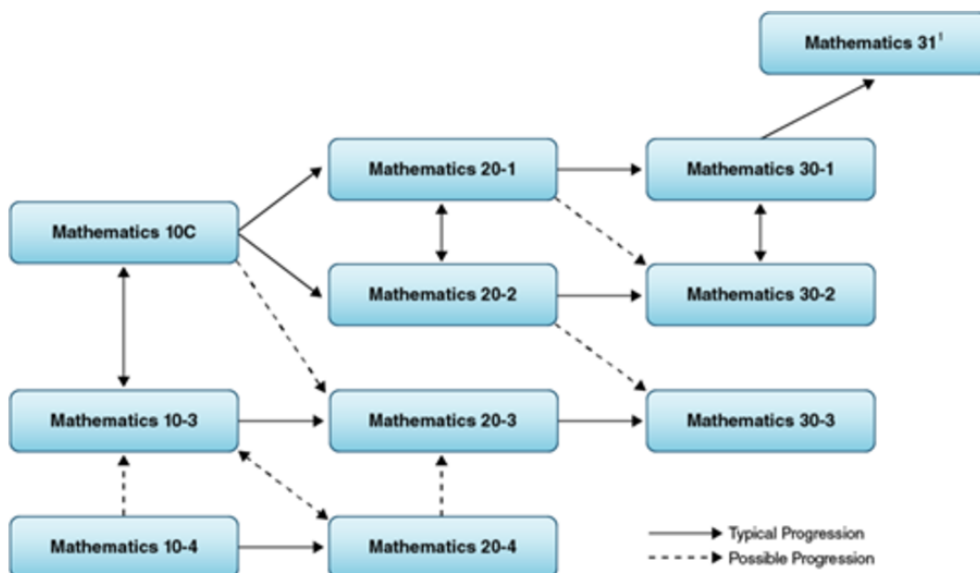
¹ Students who have achieved a final mark of 50% or greater in any one of Biology 20, Chemistry 20, Physics 20 or Science 20 may enrol in Science 30.

Social Studies Program



(Each course is 5 credits.)

Mathematics Program



(Each course is 5 credits.)

¹ Mathematics 30-1 is a prerequisite or corequisite for Mathematics 31.