

Grades 10-12

Course Descriptions

2022-2023

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ALBERTA HIGH SCHOOL DIPLOMA: GRADUATION REQUIREMENTS

The requirements indicated in this chart are the minimum requirements for a student to attain an Alberta High School Diploma. The requirements for entry into post-secondary institutions and workplaces may require additional and/or specific courses.

100 CREDITS including the following:

ENGLISH LANGUAGE ARTS – 30 LEVEL

(English Language Arts 30-1 or 30-2)

SOCIAL STUDIES – 30 LEVEL

(Social Studies 30-1 or 30-2)

MATHEMATICS – 20 LEVEL

(Mathematics 20-1, Mathematics 20-2 or Mathematics 20-3)

SCIENCE – 20 LEVEL

(Science 20, Science 24, Biology 20, Chemistry 20 or Physics 20)

PHYSICAL EDUCATION 10 (3 CREDITS)

CAREER AND LIFE MANAGEMENT (3 CREDITS)

10 CREDITS IN ANY COMBINATION FROM:

- Career and Technology Studies (CTS) courses
- Fine Arts courses
- Second Languages courses
- Physical Education 20 and/or 30
- Knowledge and Employability courses
- Registered Apprenticeship Program courses
- Locally developed/acquired and authorized courses in CTS, fine arts, second languages or Knowledge and Employability occupational courses

10 CREDITS IN ANY 30-LEVEL COURSE

(IN ADDITION TO A 30-LEVEL ENGLISH LANGUAGE ARTS AND A 30-LEVEL SOCIAL STUDIES COURSE AS SPECIFIED ABOVE)

These courses may include:

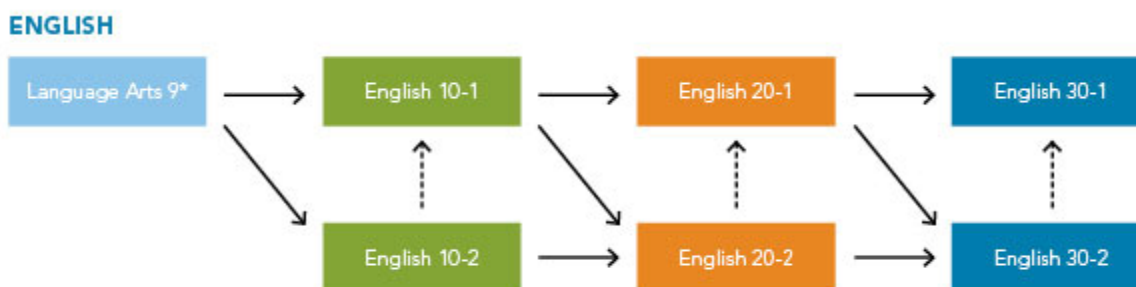
- 30-level locally developed/acquired and authorized courses
- Advanced level (3000 series) in Career and Technology Studies courses
- 30-level Work Experience courses
- 30-level Knowledge and Employability courses
- 30-level Registered Apprenticeship Program courses
- 30-level Green Certificate

English courses:

The purpose of the high school English program is to assist you in acquiring the skills, attitudes, and knowledge needed to meet the everyday requirements of life. You'll communicate confidently and competently, and deepen your understanding and appreciation of literature. English Language Arts courses are required in Grades 10, 11 and 12 and every student must complete English 30-1 or 30-2 to graduate. There are two aims of the high school English Language Arts (ELA) program: to provide you with an understanding and appreciation of a broad range of texts, and to enable you to use language effectively for a multitude of purposes. ELA focuses on six areas of language arts: listening, speaking, reading, writing, viewing and representing.

There are two main course sequences in English:

In each course sequence, you can expect to have thought-provoking discussions about a range of genres (including novels, films, short stories, poetry, plays, non-fiction and much more). Both sequences allow you to engage with the English language in meaningful ways and will open many doors down the road. It is important to talk to your counselors to make sure that your chosen course sequence is opening the doors you need it to.



English 10-1, 20-1 and 30-1 revolve around how students engage with texts on a personal and critical level; analyzing complex pieces of literature and discussing theme, meaning and purpose. Students who take this course sequence will spend much of their time studying, creating and analyzing a variety of complex literary texts.

Recommended Prerequisite for 10-1: 65%+ in ELA 9

Recommended Prerequisite for 20-1: 65%+ in ELA 10-1

Recommended Prerequisite for 30-1: 65%+ in ELA 20-1

English 10-2, 20-2 and 30-2 allow you to improve your grammar and sentence-building skills through a variety of assignments in functional, creative and analytical writing. Similar to the -1 course sequence students will engage with a wide range of texts but there will be less emphasis on literary analysis and more of an emphasis on connecting to text on a personal level. Both course sequences meet diploma requirements and require that you write a diploma exam upon completion of the 30 level course. Not all post secondary institutions accept English 30-2 for entry, so make sure you're familiar with entrance requirements for the institutions and programs you're considering.

Prerequisite for 10-2: 50% in ELA 9

Prerequisite for 20-2: 50% in ELA 10-1 or 10-2

Prerequisite for 30-2: 50% in ELA 20-1 or 20-2

French Immersion courses:

FLA 9, 10, 20, 30

Contenu du cours

Ce cours est composé de quatre parties :

- La compréhension orale : Vous serez capable de comprendre des textes oraux et de décoder des messages sonores dans des produits médiatiques pour répondre à un besoin d'information, un besoin d'imaginaire, de divertissement et d'esthétique.
- La compréhension écrite : Vous serez capable de comprendre des textes écrits et de décoder des messages visuels dans des produits médiatiques pour répondre à un besoin d'information, un besoin d'imaginaire, de divertissement et d'esthétique.
- La production écrite : Vous serez capable de rédiger des textes correctement pour transmettre de l'information selon votre intention de communication. Vous serez capable de rédiger des textes correctement pour répondre à un besoin imaginaire, pour proposer une vision du monde et pour explorer le langage.
- La production orale : Vous serez capable de parler clairement et correctement pour transmettre de l'information selon votre intention de communication. Vous serez capable de parler pour explorer le langage et pour divertir.

Prerequisite for FLA 9: 50% in FLA 8

Prerequisite for FLA 10: 50% in FLA 9

Prerequisite for FLA 20: 50% in FLA 10

Prerequisite for FLA 30: 50% in FLA 20

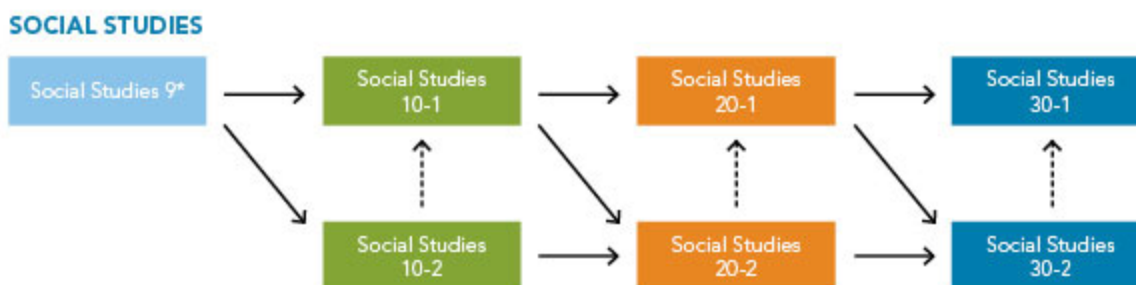
Études sociales 10

This is the equivalent of Social Studies 10-1 for French Immersion students. This course focuses on developing critical thinking skills and rigorous analysis of concepts and skills related to Globalization.

Études sociales 20 This is the equivalent of Social Studies 20-1 for French Immersion students. This course focuses on developing critical thinking skills and rigorous analysis of concepts and skills related to Nationalism

Social Studies courses:

The high school Social Studies program is designed to engage you in active and responsible citizenship while you learn about the world around you. Upon completion of the program, you'll be expected to understand consequences and interactions in an increasingly globalized world within a Canadian context. The goal of the Social Studies program is to promote a sense of belonging and acceptance as you engage in active and responsible citizenship. The program has a strong focus on Canadian and history, and you will learn about the world around you. Social Studies is an essential course in Grade 10, 11 and 12, and every student must complete Social 30-1 or 30-2.



There are two main course sequences in Social Studies:

Social Studies 10-1, 20-1 and 30-1 allow you to examine the relationships among globalization, nationalism, ideologies, citizenship and identity to enhance skills for citizenship in a globalizing world. The expectations for Social 10-1, 20-1, and 30-1 are more rigorous - particularly in areas of concept development, critical thinking and skill development. These courses are intended for students who are aiming to pursue higher level post secondary education.

Recommended Prerequisite for 10-1: 65%+ in SS 9

Recommended Prerequisite for 20-1: 65%+ in SS 10-1

Recommended Prerequisite for 30-1: 65%+ in SS 20-1 or 70%+ in SS 30-2

Social Studies 10-2, 20-2 and 30-2 is a course sequence that explores historical aspects and the relationships among globalization, nationalism, ideologies, citizenship and identity. Both courses meet graduation requirements and require that you write a diploma examination upon completion of the 30 level course. The expectations for Social Studies 10-2, 20-2 and 30-2 are less rigorous.

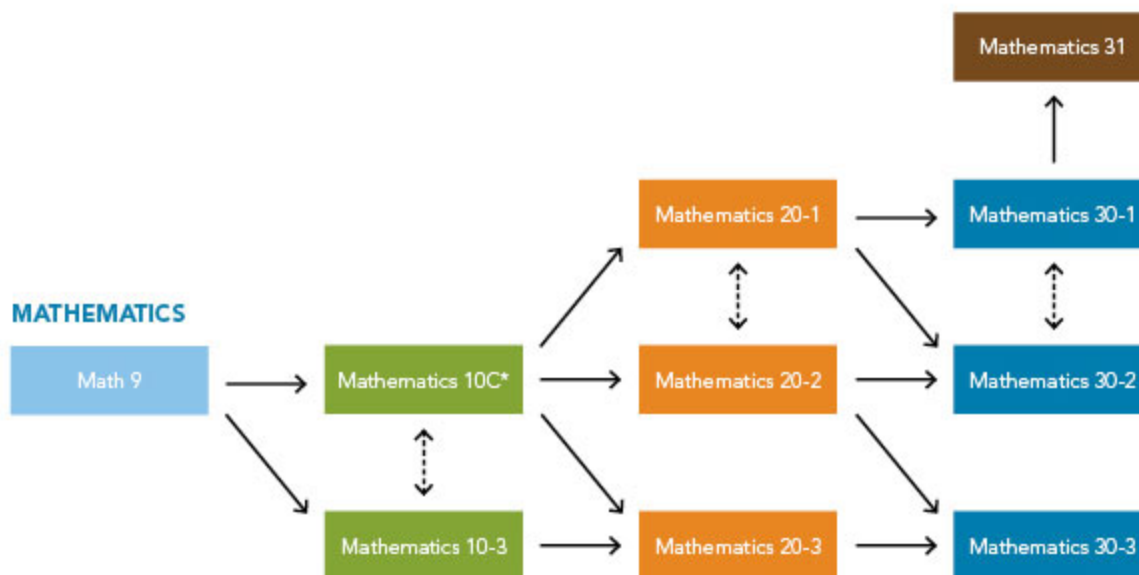
Prerequisite for 10-2: 50% in SS 9

Prerequisite for 20-2: 50% in SS 10-1 or 10-2

Prerequisite for 30-2: 50% in SS 20-1 or 20-2

Mathematics courses:

The high school Mathematics program is designed to prepare you to solve problems, communicate and reason mathematically, make connections between mathematics and its applications, appreciate and value mathematics, and make informed decisions as a contributor to society. When it comes to math, it's important to choose courses appropriate to your abilities, interests and future goals. Your previous math marks will also help to indicate which courses are most appropriate for you.



There are three main course sequences in Mathematics:

Mathematics 10C (Common) This course is the starting point for both -1 and -2 course sequences, and will prepare you for entry into postsecondary programs that may require math. Topics include algebra and number systems, measurement and relations and functions.

Prerequisite: 65% in Math 9 or 65% in Math 10-3

Math 10-C Preparation (Competencies in Mathematics 15): The purpose of Competencies in Mathematics 15 is to improve student mastery of mathematical skills, concepts and ideas. Students will be introduced to the essential outcomes of Math 10C and work through them at a slower pace than a traditional 10C course. This course is intended for students who passed Math 9 but do not feel ready to enter Math 10C.

Mathematics 20-1 and 30-1 prepares you for entry into math and science postsecondary programs. Topics include algebra, measurement, relations and functions, trigonometry, permutations, combinations and binomial theorem.

Recommended Prerequisite for 20-1: Math 10C (65%)

Recommended Prerequisite for 30-1: Math 20-1 (65%) or Math 30-2 (65%)

Mathematics 20-2 and 30-2 prepares you for post secondary studies in fields other than math or science including most trades. Topics include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics, and probability.

Recommended Prerequisite for 20-2: 50% in Math 10C

Recommended Prerequisite for 30-2: 50% in Math 20-1 or 65% in Math 20-2

Mathematics 10-3, 20-3 and 30-3 prepares you for entry into some trades and for direct entry into the workforce. Topics include algebra, geometry, measurement, number, statistics and probability.

Recommended Prerequisite for 20-3: 50% in Math 10-3

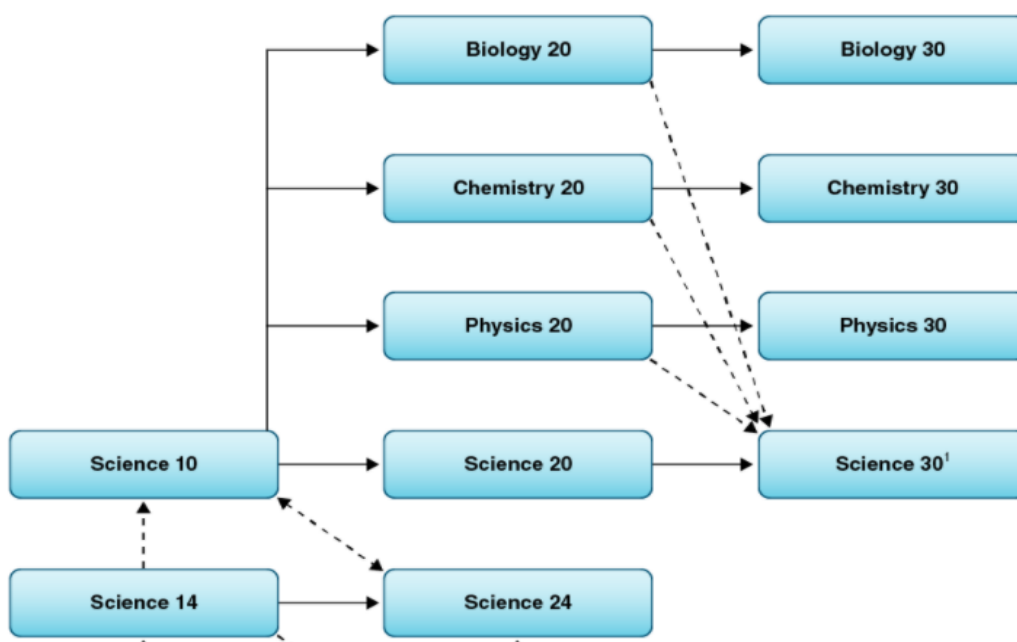
Recommended Prerequisite for 30-3: 50% in Math 20-3

Mathematics 31 is an advanced mathematics course that prepares you for post secondary programs that recommend or require calculus as an entrance requirement. Math 31 includes a comprehensive review of Math 10C, Math 20-1 and Math 30-1. If you're considering Math 31, you'll need to take Mathematics 30-1.

Recommended Prerequisite: 70%+ in Math 20-1

Sciences courses:

The high school Science program is designed to assist you in gaining the scientific understanding necessary to be an effective member of society. Learning opportunities are made meaningful so that students can relate science to their lives both inside and outside of the classroom. The Science program consists of many courses, and students have several choices based on their interests, abilities, and future plans. Science courses provide you with facts, principles, concepts, and skills to give you a better understanding of the world around you. After Science 10, you can choose to take Science, Biology, Chemistry or Physics depending on your interests, abilities and future goals. You'll need to successfully complete at least one of these courses at the 20 level in order to obtain a high school diploma.



Science 10 is the prerequisite for all the academic sciences. This course provides you with a unified view of the biological, chemical, physics, and earth sciences and an awareness of the connections among them. The four topics covered are energy and matter in chemical change, energy flow in technological systems, cycling of matter in living systems and energy flow in global systems.

Recommended Prerequisite: 65%+ in Science 9 or 70%+ in Science 14

Biology 20 and 30 explore the interactions of living systems with one another and with their environment, and emphasize the context of science by considering the interrelationships among science, technology and society. In Biology 20, the underlying theme is energy and matter exchange. In Biology 30, the emphasis is on adaptation and change.

Recommended Prerequisite for Bio 20: 65% in Sci 10 and 65% in the Sci 10 Bio Unit, or 65% in Sci 20

Recommended Prerequisite for Bio 30: 65%+ in Biology 20

Chemistry 20 and 30 are the study of matter and its changes, and emphasize the context of science by considering the interrelationships among science, technology and society. You are given an opportunity to explore and understand the natural world and to become aware of the profound influence of chemistry on your life.

Recommended Prerequisite for Chem 20: 65%+ in Sci 10 and 65% in the Sci 10 Chem unit, and Math 10-C

Recommended Prerequisite for Chem 30: 65%+ in Chemistry 20 and Math 20-1 or Math 20-2

Physics 20 and 30 are the study of matter and energy and their interactions. This program considers the interrelationship between science, technology and society. Physics 20 and 30 will help you understand the physics principles behind natural events you might experience and the technology you use in your daily life. Physics applies the language of mathematics

Recommended Prerequisite for Phys 20: 65% in Sci 10 and 65% in the Sci 10 Physics Unit and Math 10-C or Math 20-2

Recommended Prerequisite for Phys 30: 65%+ in Physics 20, and Math 20-1 or Math 20-2

Science 20 and 30 are ideal if you are interested in science and plan to use the program for post secondary entrance. Science 20 and 30 integrate concepts related to chemical, biological and Earth sciences. Science 20 can also serve as a bridging course for additional skill development between Science 10 and Biology 20, Chemistry 20, and Physics 20.

Recommended Prerequisite for Sci 20: 50% in Science 10 and Math 10C

Recommended Prerequisite for Sci 30: Sci 20, Bio 20, Chem 20, or Phys 20 and Math 10C

Science 14 and 24 are general programs that allow you to meet the credit requirements for an Alberta high school diploma. These courses do not fulfill requirements for college, university, or trades.

Recommended Prerequisite for Sci 24: 50% in Sci 14 or Sci 10

Career and Life Management (CALM):

This is a mandatory course required to graduate and is generally taken in the grade 10 year. Job Preparation and HCS 3000 make up the remaining two credits of this total five credit class.

The aim of senior high school Career and Life Management (CALM) is to enable students to make well informed, considered decisions and choices in all aspects of their lives and to develop behaviours and attitudes that contribute to the well-being and respect of self and others, now and in the future. CALM is the core course for health literacy at the senior high school level in Alberta. In CALM, students continue to work toward becoming “responsible, caring, creative, self-reliant and contributing members of a knowledge-based and prosperous society”.

CALM 20 is broken into three distinct parts: Personal, Resource, and Career Choices.

Job Prep, for one credit, assists students in developing a resume and cover letter as well as being introduced to interview skills. Further career research and goals for graduation are focused on in this segment utilizing the “My Blueprint” program which students have previously been introduced to.

HCS 3000, for one credit, is a course that all students must have before they may take advantage of seeking extra credits through Work Experience. It is primarily a course based on safety in the workplace and looks at many necessary components related to thriving in a workplace setting.

Complementary Courses**Drama and Technical Theatre courses:****Drama 10**

Welcome to Drama 10! This class is also an introductory class but we will explore theatre as a way to improve performance and technical skills at the next level. It will be a new course for those who had Drama 9 but will offer brand new Drama students an introduction to theatre. This course will examine acting basics, creative movement scenes -think slow-motion fight sequencing, lighting and soundboard introductions, and scriptwriting/analysis. If you want to be more comfortable in front of a video camera, this class could be for you!

Prerequisite for Drama 10: n/a

Drama 20/30

Welcome to Drama 20/30! This everyday course will explore advanced acting techniques, playwriting, and improvisation. There will also be in-class opportunities for Drama 30s to direct fellow classmates in scene work as they learn directing basics. We will examine the technical theatre interests of the students as they explore costume, set, stage management, lighting, sound, or properties. We will dig into theatre history to build a foundation of knowledge as we explore eras and theatre studies. In this class you will become a better performer, an excellent collaborator, make friends and have fun doing it!

Prerequisite: Drama 10/20

Technical Theatre 15/25/35

In this class, you will explore the technical theatre disciplines lighting, sound, makeup, costumes, sets and properties, and career exploration. This course is designed to offer students an opportunity to explore and experience skills necessary to realize a theatrical and public performance. This course provides opportunities for students to study theatre in a hands-on, theatre-based environment. Students will have an opportunity to be creative and innovative, and apply problem-solving skills in a performance-based environment. Effective teamwork, collaboration, and communication skills are essential skills of lifelong learners who are able to adapt to change with an attitude of optimism. In this course, students will build positive relationships, share responsibility, and demonstrate flexibility. There is an opportunity to work with the technical facilities and equipment of the theatre department.

Prerequisite for 25: Tech Theatre 15

Prerequisite for 35: Tech Theatre 25

Visual Art courses:

Visual Art 10 is concerned with the organization of visual material and beginning the journey of thinking and behaving like artists. We will produce portfolios concentrating on style and application, 1,2 and 3 point linear perspective, proportional spacing, ellipses, value study through famous art, drawing exercises with (charcoal, pastel, conte, ink, pencil crayon, graphite), acrylic painting applications, and high contrast scratchboard.

Prerequisite: n/a

Visual Art 20/30/31 focuses on refining artistic skills and finding your style to create a body of work or portfolio. The course is for the seriously passionately creative maker/ artist/ designer who may be heading into a visual arts studio program, design, or curatorial course at the postsecondary level. We begin the term with some structured projects to continue refining our skills and techniques, and move towards independent projects, determined by you through a proposal form.

Prerequisite for Art 20: Art 10

Prerequisite for Art 30: Art 20

Prerequisite for Art 31: Art 30

Music courses:

Instrumental 10 (Band 10):

Instrumental 10 is a performance based program that grows previously developed skills from grade 9. The Instrumental 10 program is currently run in conjunction with the Instrumental 20 & 30 programs. This allows the grade 10 player to have the opportunity to play with more experienced players, making an excellent learning environment. Through the development of musical skills, students will demonstrate creative expression through performance and musical literacy.

Prerequisite: n/a

Instrumental 20 (Band 20):

Instrumental 20 continues to develop ensemble musical performance through establishing stronger technical skills. Instrumental 20 allows players to become more confident in their range, tone quality, technique speed and repertoire interpretation. Students develop an understanding of melody, harmony and expression.

Prerequisite: Instrumental 10

Instrumental 30 (Band 30):

Instrumental 30 is the culmination of skill development, reaching a level of excellence in performance acquired through dedication and perseverance. Students develop an ability to be lifelong players, with the ability to make intellectual and aesthetic judgments based on critical listening and analysis. Students increased their performance ability through skills, range, articulation, rhythm, written, aural and interpretation.

Prerequisite: Instrumental 20

Choral 10:

Students can join choir for the first time in Choral 10. Choral 10 is a course for credit that is run after school hours. Choral 10 develops vocal, aural and theoretical skills. Choir members learn about the care of their vocal instrument, breath control, vowel and consonant forms, tuning, blend and balance. Choir is a participatory class with all members depending on the contribution of themselves and others to the musical benefit of all.

Prerequisite: n/a

Choral 20:

Students continue the pursuit of excellent choral sound with Choral 20. Choral 20 singers perform harmonic parts as well as expand vocal range with tone maturity. There is an effort to become better at sight reading and sight singing. Students have several performance commitments including Remembrance Day, Festival of Trees, Christmas Concert, Spring Sing, Final Concert and H.J. Cody Graduation.

Prerequisite: Choral 10

Choral 30:

Choral 30 is the culmination of choir pursuits within a high school setting. There is continued development of vocal, aural, theoretical, practical, interpretive skills and synthesis skills. Choral 30 students develop leadership skills and responsibilities. Choral 30 requires students to apply maximum effort and attain effectiveness in performance through physical and mental discipline. Choral 30 develops positive attitudes towards the uniqueness of this communication skill.

Prerequisite: Choral 20

General Music 10 (Guitar 10)

Guitar 10 can be the first class that students experience playing guitar. There are two required components: theory and music making. The elective components include: composition, history of western music, music and technology, world music, careers in music, jazz appreciation and popular music.

Prerequisite: n/a

General Music 20/30 (Guitar 20/30)

There is a continuation of skill development, performance requirements and small ensemble experiences. Students at this level are interested in pursuing a growth in their personal performance. There is a continuum of focus in melody, harmony, rhythm, timbre, form, texture, dynamics, style, theory and notation, ear training and music making.

Prerequisite:

Guitar 10 for Guitar 20

Guitar 20 for Guitar 30

Social Sciences courses:**Psychology 20:**

This course is designed to give students an appreciation for the study of psychology, as well as an opportunity to apply psychological concepts to their own lives. Students are encouraged to take full advantage of the opportunity to investigate this field, as it may provide assistance with personal and career interests. Upon successful completion of this program, students will receive 3 credits in General Psychology 20 and 3 credits in Personal Psychology 20.

Prerequisite: n/a

Topics in each course include:

General Psychology	Personal Psychology
<u>Introduction & History of Psychology:</u> Behavioral, Cognitive, Psychoanalytic, Humanistic Theories, Nature vs. Nurture	<u>Sensation & Perception:</u> The Senses, Perception, Cognitive Dissonance, Illusions
<u>Consciousness:</u> Meditation, Sleeping, Altered States of Consciousness	<u>The Mind-Body Connection:</u> Nervous & Endocrine Systems, Stress, Positive Psychology
<u>Social & Interpersonal Psychology:</u> Relationships, Conflict Archetypes & Conflict Resolution	<u>Personality, Behavior & Intelligence:</u> Theories & Tests, Processes of Thinking & Learning

***NEW* Indigenous/Aboriginal Studies 10:**

For the purposes of this course description, Aboriginal peoples may also be referred to as “Indigenous.” The focal point of Indigenous Studies 10 is the wealth and diverse nature of Aboriginal languages and cultures. Aboriginal Studies 10 course reflects the perspectives and worldviews of Aboriginal Peoples. It includes the study of traditions and history of Aboriginal Peoples in Canada, and particularly in Alberta. This course is available to grades 10-12.

The four themes for the course are:

1. Origin and Settlement Patterns
2. Indigenous Worldviews
3. Political and Economic Organization
4. Indigenous Symbolism and Expression

The course is innovative and engaging, and allows students to learn about issues and history from an Indigenous perspective. Students will have the opportunity to engage in a variety of cultural experiences. Elders and guest speakers will be invited in to share Indigenous knowledge as well as any other opportunities that arise during the course.

Forensic Science 25/35:

In Forensic Science students will investigate and evaluate the processes involved in the collection and preservation of crime scene evidence. Four units shape student learning by advancing their understanding of the following concepts:

1. Physical Evidence
2. Forensic Toxicology
3. Investigative Procedures
4. Forensic Psychology

As students delve into forensic studies, they will investigate and analyze the strengths and limitations of forensic evidence analysis. This is a combined 25-35 six credit course, which aims to provide hands-on experiences through microscope analysis, blood spatter experimentation, and investigations into true crime.

***NEW* Palaeontology 15:** This is an introductory palaeontology course that provides a basic knowledge of the major groups of ancient organisms including biological and geological interpretations of their fossil record. Students will also be introduced to the techniques and science of palaeontology...and of course lots of **fossils!!** Included is a field component provided by the ATCO Learning Centre at the Royal Tyrrell Museum in Drumheller...dinosaurs!!

***NEW* Big History 15:**

Where did we come from? What causes change? Where are we heading?

Big History takes on these questions that originate with the dawn of time, and gives students a framework to tell the story of humanity's place in the Universe. It's more than a history course. Big History helps students see the overall picture and make sense of the pieces: it looks at the past from the Big Bang to modernity, seeking out common themes and patterns that can help us better understand people, civilizations, and the world we live in. By teaching students to explore these connections, and to effectively question, analyze and postulate, it provides a foundation for thinking not only about the past, but also the future and the changes that are reshaping our world. Throughout, students encounter challenging ideas and questions and learn to connect ideas across 13.8 billion years of time and an array of disciplines. The course asks students to thoughtfully and rigorously engage with the claims they encounter along the way.

***NEW* Leadership, Character and Social Responsibility 15/25/35:**

This course enables students to acquire an understanding of the nature of leadership and philosophical and ethical reasoning. It encourages students to develop and apply their knowledge and skills while exploring ethical principles and the theories of moral philosophy (the course will cover at least three of the following branches: ethics, social and political philosophy, and practical logic and reasoning). Students will develop critical thinking and ethical reasoning skills as they formulate and evaluate arguments related to a variety of questions and theories concerning social responsibility. They will also develop research and inquiry skills related to the study and practice of ethical leadership, character building and moral responsibility. This is a five credit course.

Prerequisite for Leadership 15: n/a

Shop courses:

Introductory Construction 10 - Career and Technology Studies (CTS) is a competency based curriculum that focuses on introducing the student to Trades, Manufacturing & Transportation. The student will work on individual modules that cover prerequisite curriculum in Construction Tools & Materials, Fabrication Tools & Materials, and Modes & Mechanisms. These prerequisites form the foundation for learning in Advanced Construction, and Introductory Welding . This is a 3 credit course.
Prerequisite: n/a

Advanced Construction 20/30 - Career and Technology Studies (CTS) is a competency based curriculum that focuses on expanding and exploring individual skills in the Construction sectors. The student will work on individual modules that build on prerequisites covered in Introductory Construction. Students will gain experiences in Cabinet Making, Furniture Making, Building Construction, and Concrete Work. Student creativity is further encouraged and developed at this level utilizing personal strengths and interests. This is a five credit course.
Prerequisite: Introductory Construction

Introductory Mechanics/Fabrication 10:

Students complete three modules in this course:

MEC1015: MECHANICS TOOLS & MATERIALS

Students develop knowledge, skills and attitudes in the safe use of specialty hand tools, measuring tools and fasteners. Specialty precision measuring tools such as Micrometers and Vernier Calipers will be used as motors are disassembled. The student will learn what tools to use and how to use them in various applications. A great majority of these tools will be used in Engine Fundamentals.

MEC1040: ENGINE FUNDAMENTALS

Students investigate and describe operating principles, construction and applications of engines. Students will disassemble and assemble a 4 stroke engine a number of times during the term, and will describe all working processes and components.

MEC 1910 : PROJECT A

Students apply the knowledge gained from MEC1015 & MEC1040 to Identify/diagnose/repair & service a small engine. Students are encouraged to bring a small engine to school and following accepted industry practices return to the engine to factory operating conditions where applicable. The outcomes for the student are to be able to repair and/or service their small engines at home on a seasonal basis. The skills learned in Grade 10 prepare the student for a total 8 Cylinder engine rebuild in Grade 11.

Prerequisite: n/a

Advanced Mechanics/Fabrication 20/30

Career and Technology Studies (CTS) is a competency based curriculum that focuses on expanding and exploring individual skills in the Mechanics and Fabrication sectors. The student will work on individual modules that build on prerequisites covered in Introductory Mechanics. Our goal is to focus on "tearing down" and rebuilding a small block 350 engine and restore it into working condition. Fabrication techniques are explored on a personal interest level covering areas such as; Oxy/acetylene welding, basic electric welding, Mig welding, sheet metal fabrication, and foundry techniques. Students will also be able to explore individual interests in vehicle servicing, detailing, and Auto Body Mechanics. This is a five credit course.

Prerequisite for Mechanics: MEC 1015, MEC 1040

Prerequisite for Fabrication: FAB 1010 (This is needed for welding and will be covered

Foods courses:**Foods 10**

Each credit will take approximately 2.5 weeks, during which a minimum of 5 cooking projects will be completed. The units of study are as follows (there are additional units for students who finish ahead):

FOD 1010: Food Basics (this 1st credit is a prerequisite for all other Foods courses in high school)

FOD 1020: Contemporary Baking

FOD 1030: Snacks & Appetizers

FOD 1040: Meal Planning

FOD 1050: Fast & Convenience Foods

Advanced Foods

Each credit will take approximately 2.5 weeks, during which a minimum of 5 cooking projects will be completed. The units of study are as follows (there are additional units for students who finish ahead):

FOD 2030: Food Decisions & Health

FOD 2040: Cake & Pastry

FOD 2050: Bread Products

FOD 2090: Creative Cold Foods

FOD 2070: Soups & Sauces

FOD 2170: Regional Cuisine

FOD 2920: Project C

FOD 2120: Meal Planning 2

FOD 2060: Milk and Eggs

FOD 3910: Project D

FOD 3030: Adv. Baking

FOD 3040: Yeast Products

FOD 3060: Food Presentation

FOD 3050: Adv. Soups & Sauces

FOD 3160: International Cuisine

FOD 3920: Project E

FOD 3010: Food for Life Stages

FOD 3070: Short Order Cooking

** If time, students may pursue more than 5 credits.

Prerequisite: Foods 1010. Students without this prerequisite may be admitted into advanced foods at the teacher's discretion. The student must demonstrate the initiative to be able to do a bit of additional work in a somewhat independent fashion.

Multimedia and Programming courses:***NEW* Introductory Digital Design 15**

This course serves as a precursor to the advanced COM Tech classes. Half of the course will be focused on visual composition and basic principles of digital design. Students will be introduced to Adobe Suite Programs like Illustrator and Photoshop, and will be able to create their own stickers with their new design skills! The second half of the course will focus on how media impacts daily life, and developing advertising awareness. This is a 3 credit course.

Prerequisite: n/a

***NEW* Advanced Digital Design 25/35**

In the Digital Design Class students learn and develop the skills necessary to create personal projects which then come to life through vectorization with CAD. This process involves learning elements of Adobe Suite (Illustrator, Photoshop, etc.), Roland Cut Studio, Versa Works, and using these tools to create logos, stickers, t-shirts, hoodies, etc. This is a five credit course.

Prerequisite: Introductory Digital Design 15

***NEW* Introductory Robotics and Coding 15**

The Introductory Robotics course introduces students to basic programming as well as problem solving skills. In this course, students will use Arduino to build their foundational skills in robotics. This includes designing, building, and programming robots to complete various tasks. The programs will start out quite simple but will progress to more complicated projects. In order to build the skills and attitudes necessary for future success, students should be prepared for a semester of logical thinking, problem solving, hands-on activities, and teamwork. This is a 3 credit course.

Prerequisite: n/a

***NEW* Advanced Robotics and Coding 25/35**

HJC Robotics will create opportunities for students to engage in planning, computational thinking, and collaborative problem solving through both unplugged and online activities. Using vEx Robotics classroom tools, students will further develop their programming skills while working in groups to accomplish tasks and activities to build their knowledge with the four elements of computational thinking: decomposition, pattern making, abstraction and algorithms to help support coding for Robotics. This is a five credit course.

Prerequisite: Robotics and Coding 15

***NEW* Advanced Creative Media & Marketing 25/35**

Students in this class are the designers/suppliers of almost all our HJC Advertising and promotional posters at the school. Students build their capacity to run a mini business while learning the proper techniques of print and digital media production. Students will learn how to safely navigate, create, and publish in the digital world. Social media and digital tools will be utilized to advertise and promote HJC in a positive light for our school community. Multimedia in the form of videos, clips, links, and presenting a clear message will be essential take-away skills for participating students. This is a five credit course.

Prerequisite: Introductory Digital Design 15

Digital Photography 10/20/30

Photography captures moments in time through light & allows us to view the world through different lenses either as the viewer or the photographer. The ever evolving technology of photography is exciting and inspiring. This course is designed to give students experiences with the creative and technical aspects of photography. Students will use digital cameras to compose, take, manipulate & edit digital photos. Photoshop and other apps will be used to enhance and improve their photographs.

Prerequisites for the Intermediate (20) and Advanced (30) courses are: Visual Communication, Exposure, Intro Photography and Composition. After that you have quite a variety of courses to choose from including: Outdoor, Color, Lighting, Digital Processing, Communication, Photojournalism, Lenses, Black & White, and more.

Prerequisite: n/a

Health Science courses:

Introduction to Health Science

This course is intended for students who are interested in a career in the medical field. It is also highly recommended for students wishing to learn how to care for athletic injuries.

Health Science 15 is broken into 3 separate classes:

Injury Management 1: The role of an athletic trainer and the basic injuries that they treat and prevent is presented. Knowledge about medical terminology and anatomy is also presented.

First Aid/CPR : Students learn and demonstrate first-aid procedures such as CPR with an automatic external defibrillator and dealing with emergency situations. Students will learn about how to prevent injuries and conditions. They will also learn how to protect themselves from infectious disease and injury while practicing First-Aid. Successful candidates will receive a Red Cross Standard First-Aid/CPR level C with AED certification. Certification is valid for 3 years.

Health Service Foundations: Students learn about what determines good health and wellness. They are to develop a basic understanding of anatomy , physiology and other medical terminology. The prevention of bloodborne pathogens is presented, as is an examination of the public health system.

Prerequisite: n/a

Advanced Health Science

This is a 5 credit course intended to help students who wish to continue with medical or kinesiology studies in a post-secondary institution. The course will also specifically help students who wish to continue with sports first-aid pursuits. The 5 different CTS credits are:

Courses - Cardiovascular Systems
 - Musculoskeletal Systems
 - Nutrition and Wellness
 - Injury Management 2
 - Technical Foundations in Injury Management

Prerequisite - Health Science 15

Esthetics courses:**Esthetics 10**

This course focuses on skincare, long hair design and nails. Modules include:

- COS 1010 Personal & Professional Practices (Prerequisite for the following modules)
- EST 1070 Manicuring 1- Basic manicures. **You must be willing to have your nails done. This means that you cannot have artificial (gel, acrylic, or fake nails) through the duration of this unit.**
- EST 1020- Skin Care Practices- Looks at skin types and basic care for the skin. **You must be willing to have your makeup removed and work closely to the client's face.**
- COS 1020: Long Hair Design 1: Basic braiding skills are the focus of this module.

Esthetics 20/30

Intermediate and Advanced Esthetics goes beyond the basics learned in Esthetics 10 and allows students to specialize in several areas of esthetics. Students must have taken Esthetics 10 to complete these modules and MUST have enjoyed working with clients in close proximity because in Advanced Esthetics you may work with clients brought in from the community.

Prerequisite: Esthetics 10

Esthetics 20:

- EST 2030 Facials
- EST 2050- Make-up
- EST 2070 Manicuring 2
- COS 2020 Long Hair Design 2
- EST 3040 Hair Removal
- Other modules may be substituted

Esthetics 30:

- EST 3010 Spa Awareness
 - COS 3020 Long Hair Design 3
 - EST 3045 Hair Removal Client Services
 - EST 3070 Pedicuring
 - EST 2035 Facials Client Services
- OR
- EST 2055 Make-up Client Services
 - Other modules may be substituted

Spanish courses:**Spanish 10**

Spanish 10 is an introduction to the Spanish language. (You can take Spanish 10 without having taken Spanish before). This is an opportunity to learn about the Spanish language, culture, and food in a fun and interactive classroom. For some students with prior knowledge of the language and cultures, it offers an opportunity for renewed contact. Students will be able to: use a repertoire of words and phrases in familiar contexts, within a variety of lexical fields, including: • people around me – greetings – personal information – people and description – professions/occupations – clothing – the body – family and friends • school – school facilities – in the classroom – time and calendar • activities – in the home – in the community— places, transportation, weather – favourite activities • celebrations—personal introduction to Spanish speaking world (geography). There will also be the annual visit to a Spanish restaurant in Red Deer!

Prerequisite: n/a

Spanish 20

Spanish 20 is a continuation of Spanish 10. Students will be able to: use a repertoire of words and phrases in familiar contexts, within a variety of lexical fields, including: • foods—restaurants, market • shopping, fashion and fads • sports and exercise • vacations and travel • social life • health and safety (physical states/visit to the doctor) • daily routine • introduction to cultural diversity in the Spanish speaking world • any other lexical fields that meet their needs and interests. There will also be the annual visit to a Spanish restaurant in Red Deer!

Prerequisite: Spanish 10

Spanish 30

In Spanish 30, students expand on their knowledge from Spanish 10 + 20, and move into exploration of the language, both verbally and in the written format. Special attention will be paid to conversation and real-life situations, including arts, entertainment and literature • music • relationships (friends/ clubs/activities/sports/ hobbies) • celebrations (cultural) • driving • folk tales, legends and fables • children's games/ childhood activities • technology • the world of work • the environment. There will also be the annual visit to a Spanish restaurant in Red Deer!

Prerequisite: Spanish 20

Literacy and Reading courses:**Reading 15/25**

This class is designed for students who would like to improve their reading skills. Many students who have taken this class have improved their reading by at least half a grade level. Students will be working through the Pearson Education's Leveled Literacy Intervention Program.

Prerequisite: This course is 100% participatory based, so strong attendance and willingness to improve your skills is essential to succeed in this course.

Prerequisite: n/a

Physical Education courses:***NEW* Yoga 15**

Yoga 15 offers students the opportunity to study and practice yoga as a subject in its own right at H.J. Cody. It is designed to safely introduce students to the basic postures(asanas), breathing techniques(ujjayi), and relaxation methods of yoga. It will also introduce students to the health benefits of yoga, explore the historical roots of yoga, and provide a basic understanding of anatomy and physiology as it applies to this discipline. Students will develop an enhanced appreciation of yoga, and continue to develop their physical literacy, increased flexibility of movement and strength. The goal of Yoga 15 is to help students develop a strong foundation for further Yoga practice which can be a lifelong pursuit.

Prerequisite: n/a

Physical Education 10

Students will experience and participate in a number of different activities showing the benefits of being physically active. Students will be assessed throughout the semester on participation, cooperation/leadership, attitude/effort, and basic fundamental movement skills. There are a number of indoor activities students will participate in such as: volleyball, curling, basketball, dance, small group games, basic CPR training, badminton, and a variety of fitness activities. Some of the outdoor activities will include football, soccer, cross-country skiing, broomball, softball, soccer, and track and field. Students are required to volunteer a minimum of 5 hours within the HJ Cody Athletic Department as a part of their leadership in PhysEd10.

Physical Education 10 - Noncompetitive

This course is intended to foster lifetime fitness and recreation pursuits in a less competitive environment. Some of the typical activities are: fitness, yoga, basic CPR training, walking, cross-country skiing, dance, self-defense, curling, softball, badminton, bowling, nutrition, and outdoor games and recreation. Students will earn their PE 10 credits through this course.

Physical Education 20/30

This option is focused on students who enjoy being active in a number of different activities. The goal of this class is to show students a number of different activities that they can be active in so they can continue and understand the importance of lifelong fitness. Students are required to volunteer a minimum of 5 hours within the HJ Cody Athletic Department. Students will participate in various activities similar to Phys Ed 10 with the addition of a hiking/camping trip, Cross Country Skiing trip, workouts at local fitness centres, and leadership activities. Students will be assessed on skills, participation cooperation/leadership, and attitude/effort..

Sports Performance 15

This course is intended for student athletes who want to learn how to maximize the physical and mental aspects of the sports they compete in.

This course is delivered through the 3 CTS Modules:

REC1040-Foundations for Training 1 : Students learn training principles for both health and performance related fitness goals. They will then develop and perform a fitness plan with measurable goals for either performance or health related goals.

REC1050-Sport Psychology 1: Students assess the impact of mental fitness on optimal sport performance and motivation. Students examine and demonstrate strategies to strengthen mental fitness, including relaxation, visualization and positive self-talk. Concentration within a competition will be examined and a strategy to maximize it will be developed.

HSS1020-Nutrition and Wellness: Students learn about the importance of nutrition and hydration with regard to competition and training. Food choices will be evaluated. How to use food labels is explored. Most of the course will be done through a number of projects.

Sports Performance 25/35

This is a 5 credit course. It is intended for students who are in competitive sports and want to improve their physical and psychological skills. The course is separated into 5 different 1 credit CTS courses. The potential courses included:

Prerequisite: Sports Performance 15

Sports Performance 25

REC2015: Athletic Development

REC2040: Foundations for Training 2

REC2045: Training for Core Muscles

REC2050: Sports Psychology 2

REC2910: Rec Project B

Sports Performance 35

REC3015: Flexibility Training

REC3025: Cardiovascular Training

REC3030: Speed & Agility

REC3045: Periodization

REC 3050 Sports Psychology 3

REC3085: Olympic Weightlifting

Environmental and Outdoor Education courses:**Introduction to Environmental and Outdoor Education 10**

In Environmental and Outdoor Education 10, students develop the motivation and commitment to work toward the responsible use of forests, land, water and wildlife. Students will develop attitudes and knowledge applicable towards careers in environmental conservation and eco-tourism. Students are provided learning opportunities through which they discover their interests in practical and purposeful ways. Students need to be prepared to be outside in all weather situations and a variety of temperatures.

Areas of focus (modules) for Environmental and Outdoor Education 10 are:

- Introduction to Wildlife (WLD1010). Students develop the attitudes, skills and knowledge related to wildlife and ecosystems, and an understanding for the need to manage wildlife.
- Wilderness Navigation (WLD1060). Students develop the attitudes, skills and knowledge in wilderness navigation to enhance outdoor experiences.
- The Tourism Sector (TOU1010). Students analyze the organizational structure of the tourism industry at local, provincial, national and global levels. Students will perform introductory investigations of employment opportunities in tourism.