
Cochrane High School



Course Description Handbook

2020 – 2021

Grades 9 - 12



Welcome to Cochrane High

A message from our principal: Anne Kromm

Dear Cobra Community,

We are extremely proud of the wide range of classes that are available to the students at Cochrane High School. Each of these classes is the product of a great deal of hard work by all of the staff at CHS particularly the dedicated teachers that passionately deliver these courses. Over the past 50 plus years Cochrane High School has come to be known as a place for excellence. Excellence in academics, athletics, the arts and in building individuals who understand and appreciate what it means to be a positive community member.

This is truly a special place. We hope you are excited to be a part of it. We are very excited to have you here!

PLANNING

The purpose of this handbook is to help students plan their educational journey by selecting courses for the 2020-2021 school year at Cochrane High School. It contains information regarding requirements for an Alberta High School Diploma and Alberta Certificate of High School Achievement, pre-requisites, credits, and course sequences, as well as descriptions of all the courses offered at CHS.

We encourage you to plan these courses with advice from our guidance counsellors, career advisor, teachers, and parents taking into account your interests, academic achievement and long-term goals. The student and parents are ultimately responsible to ensure the courses selected meet high school graduation requirements. To help, the counsellor will provide each student with an Alberta Education Course Mark Inquiry at the annual September Grade 12 meeting when grad planners are discussed.

Post-secondary entrance requirements can differ from High School Diploma requirements and **should** be reviewed **carefully** and well in advance of graduation. Admission requirements for each post-secondary faculty may be obtained from the specific schools post-secondary website, a guidance counsellor or the career centre advisor. Refer to the guidance and career section on our homepage <http://cochrane.rockyview.ab.ca/welcome-to-cochrane-high-school/guidance-services> for information about how to make an appointment, scholarships, upcoming workshops and presentations.

Acceleration Possibilities are available in the Sciences

In order to accelerate and register in a 20-level academic science course in Semester 2 of Grade 10, the following must be in place;

- To Accelerate in **Biology 20** in Semester 2 of grade 10, the student **MUST** have
 - o Achieved >85% in Science 9 **AND**
 - o Maintain >80% in Science 10 in Semester 1 of grade 10
- To Accelerate in **Physics 20** and/or **Chemistry 20** in Semester 2 of grade 10, the student **MUST** have
 - o Achieved >85% in Science 9 **AND** Math 9
 - o Maintain >80% in Science 10 **AND** Math 10 in Semester 1 of grade 10

* **Important:** Grade 11 students receive priority.

SELECTING

Students in grade 9 please refer to the grade 9-course selection section. All students in grades 10 & 11 are required to take a full 40+ credit course load (no spares). Grade 12 students are required to take a minimum of 30 credits in their grade 12 schedule. Any exceptions are reviewed by administration and guidance on a case-by-case basis.

1. Select courses based on required courses and electives for your grade. (Refer to the course sequence chart for each core subject or the course description pre-requisites for electives).
2. All Grade 10 students must register for the following courses: English, Mathematics, Physical Education, Science, Social Studies and CALM. In English, Mathematics, Science and Social, there are different course streams depending on student's needs. Please read the course descriptors carefully.
3. Ensure you have the required pre-requisite course. A prerequisite is a course a student must successfully complete BEFORE taking a course at the next level. For example, a student must pass Social 10-1 before taking Social 20-1.
4. It is the student's right to request a course at the next level if they have achieved a 50% or higher in the previous course. However, for maximum success, CHS staff often recommends students achieve 60% to continue in the course sequence.
5. Check that your course selections match the requirements for an Alberta High School Diploma (100 credits) OR Certificate of High School Completion (80 credits).
6. Review that the courses you select meet your post-secondary aspirations and requirements.

COMPLETING

Credits

Credits are awarded to students in grades 10-12 according to the value assigned by Alberta Education to each course. For example, English 10-1 is given a value of 5 credits which the student will earn after achieving a final mark of 50% or higher. Credits can only be earned ONCE for any course. In the event that a student achieves between a 40 – 49%, she/he may choose to take an alternate course route rather than repeat the course (e.g. English 10-1 to English 20-2. Refer to the core subject course sequence chart). If the student successfully completes this next grade level in the alternate course route, the student will be granted retroactive credit for the prerequisite course in that sequence (eg. credits for English 10-2 after completing English 20-2).

Students who are not successful in earning a mark of 50% in a course, but want to remain in the same course sequence, may repeat the course at an alternate school site (such as RVS Community Learning Centre: Cochrane Campus and Chinook Learning Summer School).

Provincial Diploma Exams (PAT)

Provincial diploma exams are written 2 major times a year (January & June) in the following courses: English 30-1 & 30-2, FLA 30-1, Social Studies 30-1 & 30-2, Mathematics 30-1 & 30-2, Biology 30, Chemistry 30, Physics 30, and Science 30. Two additional exam writing sessions are provided in November and April. These two extra session require pre-registration. To receive credit in these courses students are required to be given a teacher course mark, write the exam, and obtain a final blended mark of 50% or better. The student's final blended mark is achieved through a 70-30 weighting.

A student can choose to retake the course to achieve a better mark and or rewrite the diploma exam. A rewrite form and accompanying fee of \$26.25 must be completed by required deadlines. Application forms are available at the guidance office. Please note that Alberta Education will not release a student's new mark until the fee is paid which can impact post-secondary admissions.

This handbook includes all the courses and programs offered at Cochrane High School. The information provided will enable you to plan your high school program. It also encourages you to think of those courses that you must choose throughout high school to qualify for post secondary entrance and for your chosen career. We encourage you to discuss your choices with our high school counsellors, career advisor, teachers and parents.

There are many new rules to govern your choices at the high school level and we would encourage you to take the time to become familiar with these expectations. The responsibility rests with the student and parent to be aware of the requirements for a High School Diploma or Certificate of High School Achievement and to seek out the necessary help in making long range plans.

Our guidance department, in conjunction with our career advisor, has information of the requirements to transition to the world of work or attend a post-secondary program. We encourage you to take the opportunity to explore your options. Choices you make now will have a direct impact upon your graduation.

May you find this phase of your education to be both rewarding and enjoyable.



Grade 9 Required Courses

English Language Arts 9

The aim of English Language Arts is to enable each student to understand and appreciate language, and to use it confidently and competently in a variety of situations for communication, personal satisfaction and learning. Students work with a wide variety of texts and explore diverse ways to communicate their understanding with meaning and relevance. French Immersion students follow the same curriculum. This is a 3 term class. (2 terms for FI students).

French Language Arts 9

The aim of French Language Arts is to continue the work started at the elementary level in French Immersion. Students will work with a wide variety of texts. Students will also enrich their vocabulary, syntax, comprehension skills, and production skills in order to participate confidently and more effectively in a variety of situations.

Mathematics 9

Fee:\$25.00

Upon completion of the program, students should have a base of knowledge and skills related to Number, Shape & Space, Patterns & Relations, as well as Statistics & Probability, which will prepare them for the further study of Mathematics at senior high school level. (Students will require a simple geometry set containing ruler, protractor and compass as well as a scientific calculator – with a fraction key.) Students will be taking their Shape & Space and Statistics & Probability components of the mathematics course in semester one and the Number and Patterns & Relations components in semester two. **French Immersion students follow the same curriculum, but instruction is given in French.**

Science 9

Science 9 is designed to make students scientifically literate. Students will develop an understanding of basic concepts in biology (biological diversity), chemistry (reactions), physics (electrical principles and technologies), environmental chemistry (river study and waste management) and space systems/space exploration. **French Immersion students follow the same curriculum, but instruction is given in French.**

Social Studies 9

Social Studies 9 focuses on citizenship, identity and quality of life and how Canadians are impacted by political and legislative processes in Canada. The role of economic systems in Canada and the United States will also be examined. The following general outcomes will be covered: Issues for Canadians, Governance and Rights, Economic Systems in Canada and the United States. **French Immersion students follow the same curriculum, but instruction is given in French.**

Physical Education & Health and Life Skills 9

The aim of the physical education program is to enable individuals to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle.

The Physical Education program contributes to the development of life skills for the personal management of health, for the use of physical activity as a strategy for managing life challenges, and for a setting within which to practice the ability to work with others. The program provides an equitable opportunity for all students to realize the benefits of participation in physical activity. As the benefits of physical activity increase proportionally as a result of the time and intensity provided, regular participation is an expectation. An approach that emphasizes enjoyable participation, is most likely to foster a desire in students to participate in lifelong physical activity.

The four general outcomes are:

ACTIVITY: acquire skills through a variety of developmentally appropriate movement activities; dance, games, individual activities, team activities and activities in an alternative environment.

BENEFITS HEALTH: understand, experience and appreciate the health benefits that result from physical activity.

COOPERATION: interact positively with others.

DO IT DAILY: assume responsibility to lead an active way of life.

The aim of the Health and Life Skills program is to enable students to make well-informed, healthy choices and to develop behaviours that contribute to the well-being of self and others. Health and life skills involves learning about the habits, behaviours, interactions and decisions related to healthy daily living and planning for the future. It is personal in nature and involves abilities based on a body of knowledge and practice that builds on personal values and beliefs within the context of family, school and community.

The three general outcomes are:

WELLNESS CHOICES: Students will make responsible and informed choices to maintain health and to promote safety for self and others.

RELATIONSHIP CHOICES: Students will develop effective interpersonal skills that demonstrate responsibility, respect and caring in order to establish and maintain healthy interactions.

LIFE LEARNING CHOICES: Students will use resources effectively to manage and explore life roles and career opportunities and challenges.

Adapted and Modified courses are available according to individual student need.



Grade 9 Option Courses

Art 9 **Fee: \$39.00**
Art 9 is a unified sequential course that focuses on three major components of visual learning: Drawings or Delineations - All the ways we record visual information and discoveries. Compositions Or Structures - All the ways images are put together to create meaning. Encounters With Art - Where we meet and how we respond to visual imagery. Students in Art 9 will participate in a variety of units such as: painting, sculpture, drawing, printmaking, and mixed media collage. Within each of these units the students will explore the media, specific techniques as well as art criticism and historic perspectives. Students will learn to organize and present their work in a portfolio format. Students will be expected to pay costs for materials for major projects they may choose to do.

Construction Technology 9 (Safety glasses are required) **Fee: \$30.00**
This course provides students with an opportunity to develop skills in the areas of woodworking and graphics in preparation for high school CTS courses.

Drama 9 **Fee: \$15.00**
Drama aims to develop the whole person — emotionally, physically, intellectually, imaginatively, aesthetically, and socially — by giving form and meaning to experience through “acting out”. Drama fosters positive group interaction as students learn to work collaboratively in order to solve shared problems. Areas of study in Drama 9 include movement, speech, improvisation, acting and theatre studies.

Foods 9 **Fee: \$50.00**
This is an introductory cooking class that covers the following topics: Food and Kitchen Safety, Food Preparation, Time Management, Nutrition Awareness, Canada’s Food Guide and Meal Planning. Students will develop basic baking and cooking skills.

French as a Second Language (FSL) – One Term **Fee: \$20.00**
Basic skills in listening, speaking, reading, and writing will be developed throughout the course. Emphasis will be placed on oral skills and therefore participation is very important. Generally a student should develop an appreciation and knowledge of the French culture through the use of text, music and shared experiences. Upon successful completion of this course, students proceed to French 10.

Band 9 **Fee: \$45.00**
The instrumental music program is a year-long course of study that provides the student with a comprehensive introduction to music performance. Along with performance skills, there is a component of music theory & history as it pertains to the performer. Outside of the time table, course activities can include but are not limited to: music workshops, festival performances, band camps, performance observations and concerts. Students who chose band are highly encouraged to participate in Choral Music and Instrumental Jazz 9 which are co-curricular courses/rehearsals outside of the regular instructional day (J-Block Courses). For more information see our website: www.cochranehighmusic.com

Leadership 9 **Fee: \$21.00**
Designed to develop leadership skills within all students. The goal is to enable students to be more confident in themselves and their abilities to become leaders in their school and community. Topics within the course will include: communication, problem-solving, presentation skill organizing school and class events, accountability, reflections, team-building, goal-setting, mentoring and 5 hours of community service.

Mechanics 9 (Safety glasses are required)**Fee: \$39.00**

This course is divided into two parts, internal combustion engine fundamentals and general fabrication. Students will be introduced to safety, mechanics tools and equipment and internal combustion engine fundamentals. They will disassemble and re-assemble a small gas engine to reinforce principles learned. In the fabrication module of the course students will learn how to use an electric welder, oxy-acetylene equipment, the lathe, sand casting furnace and the gas fired forge.

Mechatronics 9**Fee: \$40.00**

The world is changing and we want to prepare students for a 21st century workforce by providing them the opportunity to be designers, innovators and creators through hands-on experiences that give them the chance to solve problems that exist in their world. Mechatronics is a multi-disciplinary approach rooted in Human-Centric design thinking. In Grade 9 at Cochrane High, this term course will concentrate on design thinking and basic technical design (2-D and 3-D rendering, 3-D printing), electrotech (circuitry and soldering) and computer sciences (basic coding and robotics). Students will use these skills to solve real-world problems that exist in the world around them as all the modules come together in a final project. We hope to grow and inspire the designers, technologists, programmers, and innovators of tomorrow to design their future, today!

Outdoor Education 9 (Wildlife)**Fee: \$15.00**

The Outdoor Education program is a student-centered program designed to enhance the participant's learning ability, self-confidence, and self-discipline. This course is an adventure where individuals can challenge themselves mentally, physically, socially and emotionally. The student will learn to utilize the great outdoors as a classroom and incorporate many skills to live an active and healthy lifestyle. The students will be introduced to many safe, comfortable, outdoor experiences in all seasons. This is an activity-based option offering activities such as rock climbing, canoeing, kayaking, orienteering, archery, hiking, mountain biking, downhill skiing, cross country skiing, and snowshoeing. There will be approximately 2 field trips per month and the students must attend a minimum of two field trips.

P3 Cochrane Hockey Academy (Payable to P3 Sports)**Fee \$TBD**

For students with an aspiration for high intensity training towards their hockey career. This program is provided to build athletes and leaders in the community of Cochrane. This program has been developed as a user pay model and students wishing to participate will be required to pay a fee to enroll.

Positive Psychology 9**Fee: \$10.00**

Psychology is the study of cognitive, emotional, and behavioural processes and helps us understand ourselves and others. This unique course will focus on the science of stress, test anxiety reduction and study skills techniques, social and emotional learning strategies, coping strategies, and regular heart-focused breathing sessions using HeartMath biofeedback sensors. Students will have access to the sensors each class and will learn how to use the breath to calm down and refocus, helping them to better manage stress and test anxiety.

Photo 9**Fee: \$10.00**

Students will learn the basics of photography to prepare them for success in Photography 10. They will learn the difference between taking a snapshot and capturing a Photograph. They will learn how to edit their photos using Adobe Photoshop There will be frequent trips off campus to capture images including 1-2 field trips to Calgary, Banff or Canmore. Each week students will participate in anonymous critique sessions. Students will be able to use DSLR cameras, point and shoots or their smartphones for this course.

Sports Performance 9**Fee: \$50.00**

The goal of Sports Performance 9 is to give students the confidence, knowledge and skills to safely participate in introductory sports training in the weight room facility. We will provide students with the confidence needed to use different weight room equipment in a safe and controlled manner, while developing functional movement patterns and skills that contribute to healthy lifestyles and improved personal performance. Students will understand the introductory knowledge of how and why exercises can contribute to performance in sport and improve injury prevention.



Grade 10 – 12 Required Courses

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Graduation Requirements

Alberta High School Diploma Graduation Requirements

The requirements indicated in this chart are the minimum requirements for a student to obtain 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) Fine Arts

Second Languages

Physical Education 20 and/or 30

Locally developed/acquired and locally authorized courses in CTS, fine arts, second languages,

Knowledge and Employability courses

Registered Apprenticeship Program

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

These courses may include:

35-level Locally developed/acquired and locally authorized courses

3000 Series; Advanced Level in Career and Technology Studies Courses 35-level Work Experience

30-4 level Knowledge and Employability course 35-level Registered Apprenticeship Program 30-level

Green Certificate Specialization

Alberta Certificate of High School Achievement

Students are recommended for placement in this program – see K & E course components.

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

80 CREDITS

Include the following:

English Language Arts 20-2 or 30-4

Mathematics 10-3 or 20-4

Science 14 or 20-4

Social Studies 10-2 or 20-4

Physical Education 10 (3 credits)

Career and Life Management (CALM) (3 credits)

5 credits in

30-level Knowledge and Employability Occupational course OR

30-level Career and Technology (CTS) OR

30-level Locally Developed course with an occupational focus

AND

5 credits in

30-level Knowledge and Employability Workplace Practicum course, or 30-level Work Experience course,
OR

30-level Green Certificate course

OR

5 credits in a 30-level Registered Apprenticeship Program (RAP) course



Grade 10 – 12 Course Descriptions

Your teachers and counsellor will recommend the course in which you should register according to your ability and achievement in that subject area. Pre-requisite marks are defined for each course in this booklet. You are expected to register for the levels that have been recommended.

Elective Courses

Within your program each year you will have periods available for elective courses. In each of those periods you may choose to do one five-credit elective course or two three-credit elective courses. You will find descriptions of all courses in a latter section of this handbook.

J Block Courses

Courses are offered outside of the regular instructional day and become available after the school year starts. You will find descriptions of these courses in a latter section of this handbook.

Off-Campus

Rocky View Schools offer four programs that involve placing students in workstations (local businesses) to assist with meeting Off Campus Education objectives. They are: Workplace Practicum, Work Experience Registered Apprenticeship Program (RAP), Green Certificate Program. You will find descriptions of these courses in a latter section of this handbook.

Career and Life Management 20 – CALM

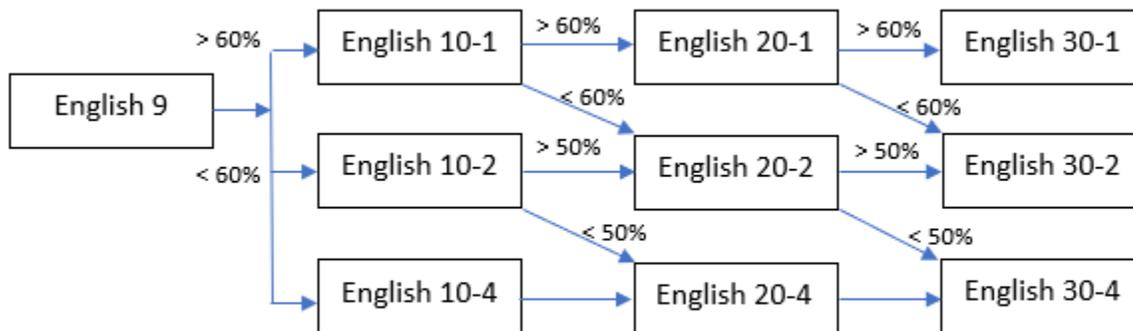
CALM is a mandatory course required for an Alberta High School Diploma or an Alberta Certificate of High School Achievement. Cochrane High School recommends that the student complete the class in their Grade 10 school year.

Career and Life Management 20 helps students prepare to cope with the accelerating rate of change in our social, economic and physical world. Self-management skills or the ability to organize and shape one's life occupationally, financially and socially are addressed in this course. The units include: Personal Choices, Resource Choices; Career and Life Choices. Continued development of their My Blueprint e-portfolio is a component of this course. *Any students requesting to take CALM 20 outside of CHS will still be required to complete their My Blueprint e-portfolio.

Building Futures

Building Futures is an immersive and unique program where students learn how to build a house from the ground up. Thanks to the generous support of Kingsmith Builders and Rocky View Schools, students are able to learn how to build a house by actually doing so. Students in the program learn their core courses from two teachers in a repurposed garage in the Willows in Cochrane. The program allows for individualized instruction and an environment where students can pursue their passions and explore an incredible variety of career options.

ENGLISH



Grade 10 Course Descriptions

English 10-1 (5 credits)

Prerequisite: >60% in English 9

This course asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literary texts by writing essays of literary analysis.

English 10-1 Advanced (5 credits)

Prerequisite: >80% in English Language Arts 9 or Teacher Recommendation

English 10-1 Advanced is an enriched academically oriented course that asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literature by writing essays of literary analysis.

English 10-2 (5 credits)

Prerequisite: < 60% in English 9

This course is intended for those students who scored below 60% in English 9 and/or on the ELA 9. Students will use a variety of strategies to comprehend and create print and non-print texts. In particular, students will respond to texts from a personal perspective and with a practical purpose, as well as demonstrate their understanding of literary texts by writing essays of literary analysis.

Grade 11 Course Descriptions

English 20-1 (5 credits)

Prerequisite: >60% In English 10-1.

This course asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literary texts by writing essays of literary analysis.

English 20-1 Advanced (5 credits)

Prerequisite: > 80% in English 10-1 or Teacher Recommendation

English 20-1 Advanced is an academically enriched course that asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literature by writing essays of literary analysis.

English 20-2 (5 credits)

Prerequisite: < 60% in English 10-1 or >50% in English 10-2

This course is intended for those students who scored below 60% in English 10-1 or students who have passed English 10-2. Students will use a variety of strategies to comprehend and to create print and non-print texts. In particular, students will respond to texts from a personal perspective and with a practical purpose, as well as demonstrate their understanding of literary texts by writing essays of literary analysis.

Grade 12 Course Descriptions**English 30-1 (5 credits)**

Prerequisite: >60% in English 20-1

This course asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literary texts by writing essays of literary analysis. English 30-1 prepares students for university entrance. It requires a considerable time commitment for success. Students can take English 35AP in second semester after completing English 30-1 in first semester.

English 30-1Advanced (5 credits)

Prerequisite: >80% in English 20-1 or Teacher Recommendation

English 30-1AP is an academically enriched course that asks students to use a variety of strategies to comprehend and to create print and non-print texts. In particular, the course challenges students to demonstrate their understanding of literature by writing essays of literary analysis. English 30-1AP provides students with a background for English 35AP as well as preparation for university entrance. It requires considerable time commitment for success.

English 30-2 (5 credits)

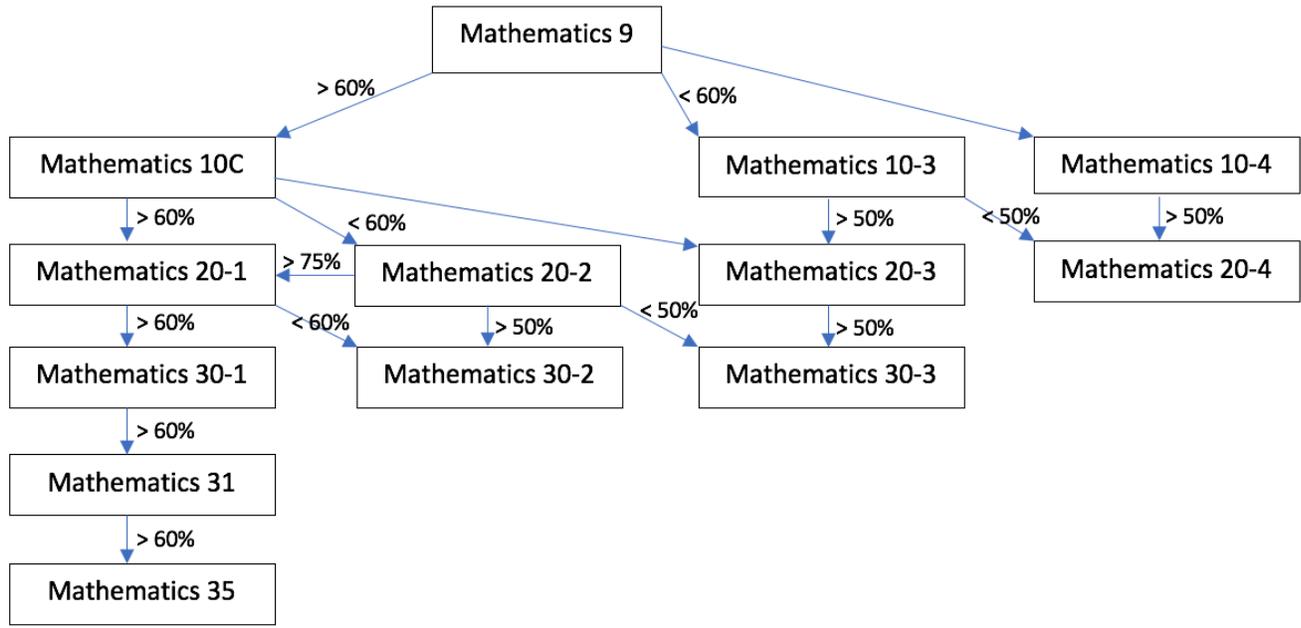
Prerequisite: < 60% in English 20-1 or > 50% in English 20-2

This course is intended for those students who scored below 60% in English 20-1 or those who passed English 20-2. Students will use a variety of strategies to comprehend and to create print and non-print texts. In particular, students will respond to texts from a personal perspective and with a practical purpose, as well as demonstrate their understanding of literary texts by writing essays of literary analysis.

MATHEMATICS

All currently enrolled Mathematics 9 students with 50% or higher may enroll in Mathematics 10C. It is recommended that students with a grade above 50% but less than 60% in grade 9 mathematics enroll in mathematics 10-3 in Semester 1 of grade 10 followed by Mathematics 10C in semester 2. Students with marks below 50% must enroll in Mathematics 10-3 or 10-4.

Below is a helpful schematic outlining the progression through each sequence.



Grade 10 Course Descriptions

Mathematics 10-C (5 credits)

FEE: \$25.00

Mathematics 10-C is an academic Mathematics course designed to prepare students for Mathematics 20-1 or 20-2. Mathematics 10-C topics include exponents, radicals, trigonometry, relations & functions and linear equations.

Grade 11 Course Descriptions

Mathematics 20-1 (5 Credits)

FEE: \$25.00

Prerequisite: Mathematics 10-C: >60% is recommended by school policy

The Mathematics 20-1 program is designed for students with an interest and aptitude in Mathematics and for students who plan to enter post-secondary programs such as engineering, Mathematics, sciences, some business studies, or other programs that require calculus. The sequence is a pre-requisite for Mathematics 31 and is required for post-secondary calculus courses. Mathematics 20-1 includes topics such as relations and functions, sequences and series, and trigonometry. A mark above 60% is recommended by school policy to proceed from Math 20-1 to Math 30-1.

While technology can be used in certain situations for Mathematics exploration, modeling and problem solving, students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. Students following this program will require a graphing calculator approved by Alberta Education. (Teachers at CHS will be using a TI84 Plus CE calculator and these are recommended for student use.)

Mathematics 20-2 (5 Credits) Prerequisite: Mathematics 10-C: >50%

FEE: \$25.00

The Mathematics 20-2 program is designed for students with an interest and aptitude in Mathematics and for students who plan to enter post-secondary programs including arts programs, social science programs, medical technologies, some apprenticeship programs, or other programs that do not require calculus. The sequence is designed with a great deal of flexibility so that students can switch sequences in grade 11 or 12 if interests change. Mathematics 20-2 includes topics such as Relations and Functions, Statistics, Measurement, and Trigonometry. While technology can be used in certain situations for Mathematics exploration, modeling and problem solving, students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. Students following this program will require a graphing calculator approved by Alberta Education. (Teachers at CHS will be using a TI84 Plus CE calculator and these are recommended for student use.)

A mark above 50% is required to proceed from Mathematics 20-2 to Mathematics 30-2.

Grade 12 Course Descriptions

Mathematics 30-1 (5 credits)

FEE: \$25.00

Prerequisite: >60% recommended in previous Mathematics level

The Mathematics 30-1 program is designed for students that require calculus, who are intending to pursue post-secondary studies at university and/or to study Mathematics 31 at high school. Mathematics 30-1 emphasizes Mathematics theory, the testing of Mathematics hypotheses and the use of algebra and graphing to solve problems. The Mathematics 30-1 program is made up of outcomes, some of which are common to both the 30-1 and 30-2 Mathematics programs. The approach to the common outcomes varies from the 30-1 to the 30-2 Programs, but the critical skill of using Mathematics to find solutions to real-life situations is developed in both programs. The course is divided into three strands: Relations and Functions, Trigonometry, and Permutations and Combinations. Another feature of the Mathematics 30-1 course is the increased use of technology, particularly in the use of graphing calculators. While technology can be used in certain situations for Mathematics exploration, modeling and problem solving, students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. Students following this program will require a graphing calculator approved by Alberta Education. (Teachers at CHS will be using a TI84 Plus CE calculator and these are recommended for student use.) A mark above 60% is recommended by school policy to proceed from Mathematics 20-1 to Mathematics 30-1.

Mathematics 30-2 (5 credits)

FEE: \$25.00

The Mathematics 30-2 program is designed for students who wish to take a more practical and less theoretical approach to the study of Mathematics than taken in the Mathematics 30-1 program. It is for students who plan to enter post-secondary programs including arts programs, social science programs, medical technologies, some apprenticeship programs, or other programs that do not require calculus. The Mathematics 30-2 courses emphasize the application of Mathematics and the use of numerical and geometrical approaches to solve problems. Students following this program will require a graphing calculator approved by Alberta Education. (Teachers at CHS will be using a TI84 Plus CE calculator and these are recommended for student use.)

Mathematics 10-3, 20-3, 30-3 (5 credits)

FEE: \$25.00

Prerequisite for Mathematics 10-3 is Mathematics 9

Prerequisite for Mathematics 20-3, 30-3: >50% in the previous Mathematics level

The Mathematics 10-3, 20-3, 30-3 are designed for students who may want to apprentice to a trade or enter the workforce directly after high school. It is designed to meet the entrance requirements in most trades programs, specifically levels one to three. The Mathematics -3 courses will include topics such as finance, geometry, measurement, probability, and trigonometry.

Math 30-1/31/35 all year (13 credits)

Fee: \$100.00USD

Prerequisite: >70% in Math 20-1

This all year course is designed for students that require calculus to apply to post-secondary programs or are planning to take one or more calculus courses at the university level.

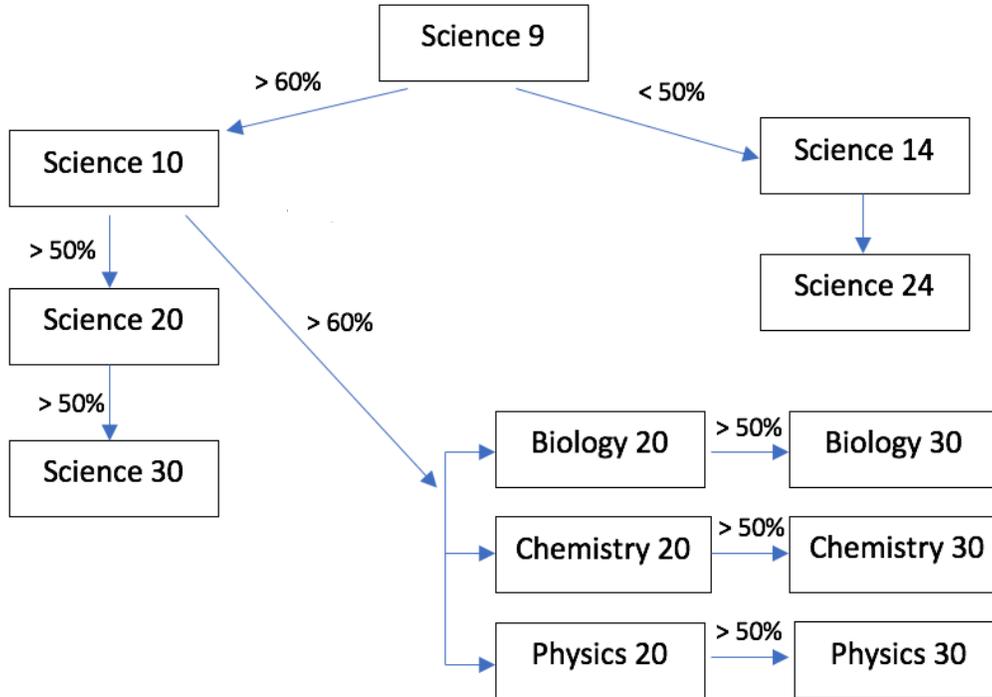
Mathematics 30-1 emphasizes Mathematical theory, the testing of Mathematics hypotheses and the use of algebra and graphing to solve problems. The course is divided into three strands: Relations and Functions, Trigonometry, and Permutations and Combinations.

Math 31 (Introduction to Calculus) and Math 35 (Advanced Placement Calculus) together are the equivalent of the first year of calculus at the university level. Limits, derivatives, integrals, and their applications are the focus of the calculus portion of this year long course. The Advanced Placement exam will be written in May, followed by the AB Education Math 30-1 diploma exam in June.

While technology can be used in certain situations for Mathematics exploration, modeling and problem solving, students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. Students following this program will require a graphing calculator approved by Alberta Education. (Teachers at CHS will be using a TI84 Plus CE calculator and these are recommended for student use.)

Students who enroll in this course are committed for the full year of grade 12 mathematics. Those seeking only Math 30-1 should register in the separate course.

SCIENCE



NOTE: Students who have a mark >50% in Biology 20, Chemistry 20 or Physics 20 can register in Science 30. Students who have a mark >40% and <50% in Biology 20, Chemistry 20 or Physics 20 or Science 20 may apply to receive credits in Science 24

Grade 10 Course Descriptions

Science 10 (5 credits)

Recommended Prerequisite : > 60% in Science 9 and >50% in Math 9.

The complexity of the algebra involved in Science 10 requires a much stronger mathematical skill set than was required for Science 9.

Science 10 is a prerequisite course for Science 20, Biology 20, Chemistry 20 and Physics 20. This is a course requiring the student to have organizational and study skills. The coursework includes laboratory exercises, projects, and research. This science program will:

- o instill in the student a greater understanding of fundamental scientific concepts, as well as an understanding of the importance of science and technology in his/her life
- o prepare students who intend to pursue careers in humanities, i.e. law, business, journalism, and applied technology.
- o prepare students to be inquisitive, assess scientific information, make judicial decisions about the use of science and technology.

- A. Energy and Matter in Chemical Change - Chemistry
- B. Energy Flow in Technological Systems - Physics
- C. Cycling of Matter in Living Systems - Biology
- D. Energy Flow in Global Systems - Climate

Science 14 (5 credits)

Recommended: < 60% in Grade 9 Science

Science 14 consists of four units of study:

1. Investigating Properties of Matter
2. Energy Transfer Technologies
3. From Life to Lifestyle
4. Matter and Energy in the Biosphere

This course is recommended for students wishing to complete the basic science requirements for a high school diploma.

Grade 11 Course Descriptions

Biology 20 (5 credits)

Recommended: > 60% in Science 10 for students in their grade 11 year

Recommended: > 80% in Science 10 for students in their grade 10 year who are accelerating

Biology 20 involves the study of life and living systems from the molecular level to the biosphere. Major themes in this course are change and diversity, energy and equilibrium, and matter and systems. Activities include a field trip, animal dissections and many other hands-on laboratory investigations. Students will be introduced to scientific writing techniques.

Biology 20 consists of four units of study:

- A. Energy Flow and Matter Cycling
- B. Ecology and Evolution
- C. Photosynthesis and Cellular Respiration
- D. Human Systems

The progression from Science 10 to Biology 20 is considerable and students should be aware that the pace of study will be higher and the quantity of homework required will be greater than Science 10.

Chemistry 20 (5 credits)

Recommended: > 60% in Science 10 for students in their grade 11 year

Recommended: > 80% in Science 10 and >80% in Math 10C for students in their grade 10 year who are accelerating

Matter and chemical change are the themes common to all the units in Chemistry 20. An understanding of the nature of matter and analysis of its changes is essential for understanding what is happening and for predicting what will happen. Chemistry 20 students are developmentally ready to begin defining matter in conceptual terms. Observations that provide evidence to support theories are stressed through experimentation and linking empirical and theoretical knowledge.

Chemistry 20 consists of four units of study:

- A. The Diversity of Matter and Chemical Bonding
- B. Forms of Matter: Gases
- C. Matter as Solutions, Acids and Bases
- D. Quantitative Relationships in Chemical Changes

The progression from Science 10 to Chemistry 20 is considerable and students should be aware that the pace of study will be higher and the quantity of homework required will be greater than Science 10.

Chemistry 20 requires students to have a firm understanding of mathematical reasoning.

Physics 20 (5 credits)

Recommended: > 60% in Science 10 for students in their grade 11 year

Recommended: > 80% in Science 10 and >80% in Math 10C for students in their grade 10 year who are accelerating (Must take Math 10C and Science 10 in first semester)

This course expands on the basic physics concepts introduced in Science 10. Studies focus primarily on Newtonian physics, the study of the motion of objects. Concepts of potential and kinetic energy are also covered as well as energy transfer by wave. This course is mathematics heavy and strong algebra skills are an asset.

Physics 20 consists of four units of study:

1. Kinematics - how objects move
2. Dynamics - why objects move
3. Circular motion, work and energy
4. Mechanical Waves - basics of wave motion, application to water and sound waves

The progression from Science 10 to Physics 20 is considerable and students should be aware that the pace of study will be higher and the quantity of homework required will be greater than Science 10.

Physics 20 requires students to have a firm understanding of mathematical reasoning and strong skills of algebraic manipulation.

Science 20 (5 credits)

Recommended: >50% in Science 10

The Science 20 program emphasizes the key concepts of science: energy, matter, change, systems, diversity and equilibrium. Each unit in Science 20 uses a different context to investigate the processes by which natural entities and systems are modified over time, and to identify common patterns of change. All work and assessment are done within class time. There is no homework in this course. This course does not have a final exam.

Science 20 consists of four units of study:

Unit 1 - Chemical Change - Chemistry

Unit 2 - Changes in Motion - Physics

Unit 3 - Changing Earth - Geology

Unit 4 - Changes in Living Systems - Biology

Science 20/30 is designed for those students who are interested in areas such as humanities, law, arts, journalism or commerce where they want a general overview of all three science disciplines.

Science 24 (5 credits)

Recommended: >40% in Science 10 or >50% in Science 14

Science 24 consists of four units of study:

1. Properties of Matter

2. Energy Transfer Technologies

3. Matter and Energy in Living Systems

4. Matter and Energy in the Environment

This course is recommended for students wishing to complete the basic Science requirements for a high school diploma, i.e. 10 credits.

Grade 12 Course Descriptions

Biology 30 (5 credits)

Recommended: > 60% in Biology 20 for students in their grade 12 year

Recommended: > 80% in Biology 20 for students in their grade 11 year who are accelerating

The major science themes developed in this course are change, diversity, equilibrium and systems. Matter and energy are subordinate themes that are also addressed. The major concepts allow connections to be drawn among the four units of this course and among all eight units in the Science 10 - Biology 20 program combined. Each unit contains a written component. The topic for each writing assignment relates to a specific science, technology, and society field.

Biology 30 consists of four units of study:

Unit 1 - Homeostasis: Nervous and Endocrine Systems

Unit 2 - Reproduction and Development

Unit 3 - Cell Division, Genetics and DNA

Unit 4 - Population Genetics and Dynamics

Chemistry 30 (5 credits)

Recommended: > 60% in Chemistry 20 for students in their grade 12 year

Recommended: > 80% in Chemistry 20 for students in their grade 11 year who are accelerating

Chemistry 30 expands upon the concepts and skills introduced in Science 10 and Chemistry 20. The first three units in Chemistry 30 use a different context to investigate the nature of chemical change. Energy, as it relates to chemical change, is the focus of Unit 1, Thermochemistry. In Unit 2, electrochemical systems are examined, oxidation-reduction reactions are analyzed, and matter and energy involved are quantified. In Unit 3, the focus is on chemical systems at equilibrium. Few chemical reactions proceed in only one direction; most are somewhat reversible. Chemical systems involving acids and bases are studied as examples. Unit 4 is a brief study of the nomenclature and nature of basic organic compounds.

Chemistry 30 consists of four units of study:

Unit 1 - Thermochemical Changes

Unit 2 - Electrochemical Changes

Unit 3 - Equilibrium, Acids and Bases

Unit 4 - Organic Chemistry

Physics 30 (5 credits)

Recommended: > 60% in Physics 20 for students in their grade 12 year

Recommended: > 80% in Physics 20 for students in their grade 11 year who are accelerating

This course follows the historical developments that have led to the modern quantum theory. It shows that physics is a dynamic and ever changing field that has allowed the discovery and implementation of present day technology. Physics 30 requires significantly more conceptual understanding than physics 20 as concepts covered are often microscopic rather than macroscopic.

Physics 30 consists of four units of study:

1. Conservation Laws - Momentum and Impulse

2. Forces and Fields - Electric and Magnetic forces and fields and their relationship

3. Electromagnetic Radiation - wave and particle models of EMR in a historical context

4. Atomic and Nuclear Physics - models of the atom leading to the quantum model, nature of the nucleus and process of nuclear change

Science 30 (5 credits)

Recommended: >50% in Science 20, or Biology 20, or Chemistry 20 or Physics 20

The major science themes developed in this course are system and energy. The human organism is used to illustrate some of the mechanisms that enable living systems to respond to changes in their environment. An introduction to environmental chemistry focuses on the impact of acids, bases and organic compounds on ecosystems. The use of electromagnetic energy in communication and scientific research is studied. The range of renewable and non-renewable energy sources available for commercial use is examined and considers the impact of their use on global ecosystems. This course can be used as a university entrance science requirement for some faculties. All work and assessment are done within class time. There is no homework in this course.

Science 30 consists of four units of study:

Unit 1 - Maintaining Health - Circulatory system and Genetics

Unit 2 - Chemistry and the Environment - Acid Rain and Organics

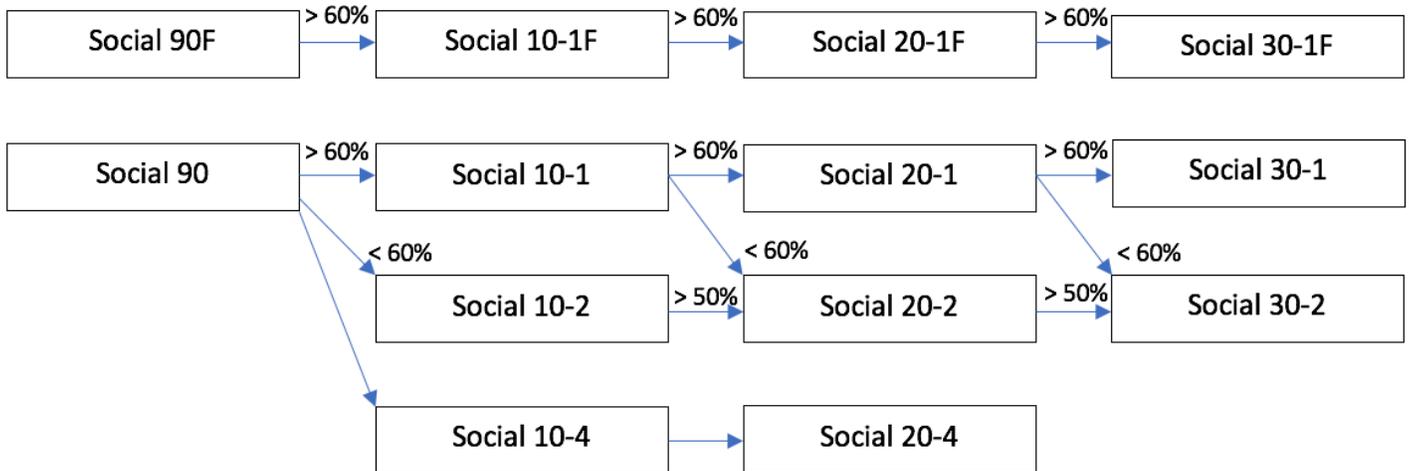
Unit 3 - Electromagnetic Energy - Fields, Electricity and EMR

Unit 4 - Energy and the Environment - Global View on Energy Sources

SOCIAL STUDIES

The goal of social studies is to provide learning opportunities for students to:

- understanding the principles underlying a democratic society
- demonstrate a critical understanding of individual and collective rights
- understand the commitment required to ensure the vitality and sustainability of their changing communities at the local, provincial, national and global levels
- Validate and accept differences that contribute to the pluralistic nature of Canada
- Respect the dignity and support the equality of all human beings



Grade 10 Course Descriptions

Social Studies 10-1 (5 credits)

Prerequisite: >60% in Social 9. It is recommended that students who receive below 60% enroll in Social 10-2. Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on lands, cultures, economies, human rights and quality of life. Students will examine the relationships among globalization, citizenship and identity to enhance skills for citizenship in a globalizing world. The infusion of multiple perspectives will allow students to examine the effects of globalization on peoples in Canada and throughout the world, including the impact on Aboriginal and Francophone communities.

Social Studies 10-2 (5 credits)

Students will explore historical aspects of globalization as well as the effects of globalization on lands, cultures, human rights and quality of life. Students will explore the relationships among globalization, citizenship and identity. The infusion of multiple perspectives will allow students to examine the effects of globalization on peoples in Canada and other locations, including the impact on Aboriginal and Francophone communities. Students will develop skills to respond to issues emerging in an increasingly globalized world.

Social Studies 10-1 (5 credits) Prerequisite: >60% in Social 9F

Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on lands, cultures, economics, human rights and quality of life. The key focus is the extent globalization should be embraced.

Grade 11 Course Descriptions

Social Studies 20-1/20-1F (5 credits)

Prerequisite: >60% in Social 10-1. It is recommended that Students who receive below 60% enroll in Social 20-2. Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influence of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada.

Social Studies 20-2 (5 credits)

Prerequisite: Social Studies 10-1 or Social Studies 10-2

Students will examine historical and contemporary understandings of nationalism in Canada and the world. They will explore the origins of nationalism as well as the impacts of nationalism on individuals and communities in Canada and other locations. Examples of nationalism, ultranationalism, supranationalism and internationalism will be examined from multiple perspectives. Students will develop personal and civic responses to emergent issues related to nationalism.

Grade 12 Course Descriptions

Social Studies 30-1/30-1F (5 credits)

Prerequisite: Social Studies 20-1 Perspectives on Ideology.

Grade 12 explores the origins and complexities of ideologies. Students will investigate, analyze and evaluate government policies and actions and develop individual and collective responses to contemporary local, national and global issues.

Social Studies 30-2 (5 credits)

Prerequisite: Social Studies 20-1 or Social Studies 20-2 Understandings of Ideology

Grade 12 explores the origins and complexities of ideologies. Students will investigate, analyze and evaluate government policies and actions and develop individual and collective responses to contemporary local, national and global issues.

Combined Social 10-1 with World Religions 30: Globalization and World Religions (8 credits)

This is a liberal arts course, therefore “non-vocational,” it is designed to broaden your interests in social sciences. This course is designed so that you learn for the sake of learning and deepen your connection to the humanities. World Religions is a survey course, combined with Social Studies 10-1 a core curricular based outcomes course, we do not deliver more than a survey of the religious institutions and beliefs of humankind embedded in the social studies course. Given that our timeline for world religions begins in 3500 BCE before common people could read or write, this course will focus on only the “essential” concepts and skills that can be applied to various eras, themes and events of human religious history that correspond with the topics of globalization in Social 10-1. The course is organized in a “traditional thematic” manner as outlined by the Social 10-1 materials. Four themes for world religions will be incorporated into our 4 traditional units of globalization. They are “cultural impacts, basic beliefs and practices, rituals(festivals, symbols), and finally sacred texts (written and oral) Students are expected to develop an appreciation for religion as an institution that has shaped the events, issues people and places that often lay outside our traditional Social Studies 10-1 course. This is a project-based course, students are required to complete one midterm and one final summative project for class presentation. The project topic is a student’s choice, approved by the instructor. While guest speakers, field trips and quizzes are offered they are considered formative assessments in social studies, these will become required elements and will be used for only 20% of the student’s overall grade. **Students must be available in Connect block for field study and accelerated curriculum.** Attendance and participation is a key component of this course, students who do not comply will be removed from this course. 5 classes make up 11% of the course, students who miss more than 5 classes will be asked to withdraw. (Absences sponsored by school events, athletics, field trips, events are not counted toward the 11%) Students will generate 2 separate course marks, however, projects marks will be used for assessment in both courses. Success students will earn 5 credits in Social Studies 10-1 and 3 credits in World Religions 30. Minimum enrol required for this course is 30 students, if minimum enrolment is not met, the combined class will not go ahead and only Social Studies 10-1 will continue. **Successful enrolment of this combined course will result in a NEW**Combined Social 20-1 with World Geography 30. Nationalism and World Geography.**

PHYSICAL EDUCATION

Physical Education 10 (Compulsory) (5 credits)

The aim of the physical education program is to enable individuals to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle.

The Physical Education program contributes to the development of life skills for the personal management of health, for the use of physical activity as a strategy for managing life challenges, and for a setting within which to practice the ability to work with others. The program provides an equitable opportunity for all students to realize the benefits of participation in physical activity. As the benefits of physical activity increase proportionally as a result of the time and intensity provided, regular participation is an expectation. An approach that emphasizes enjoyable participation, is most likely to foster a desire in students to participate in lifelong physical activity.

The four general outcomes are:

ACTIVITY: acquire skills through a variety of developmentally appropriate movement activities; dance, games, individual activities, team activities and activities in an alternative environment.

BENEFITS HEALTH: understand, experience and appreciate the health benefits that result from physical activity.

COOPERATION: interact positively with others.

DO IT DAILY: assume responsibility to lead an active way of life.

Physical Education 20/30 (Prerequisite > 50% in PE 10) (5 credits)

Fee \$75.00

In PE 20/30 there is a greater focus non-traditional activities/sports and therefore an increase in the number of field trips which may require students to be excused from other classes. However, a strong attempt will be given to minimize this disruption and schedule field trips during class time, lunch and/or CONN3CT block. The course fee covers costs associated with booking these opportunities and transportation to them.

The aim of the physical education program is to enable individuals to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle.

The Physical Education program contributes to the development of life skills for the personal management of health, for the use of physical activity as a strategy for managing life challenges, and for a setting within which to practice the ability to work with others. The program provides an equitable opportunity for all students to realize the benefits of participation in physical activity. As the benefits of physical activity increase proportionally as a result of the time and intensity provided, regular participation is an expectation. An approach that emphasizes enjoyable participation, is most likely to foster a desire in students to participate in lifelong physical activity.

The four general outcomes are:

ACTIVITY: acquire skills through a variety of developmentally appropriate movement activities; dance, games, individual activities, team activities and activities in an alternative environment.

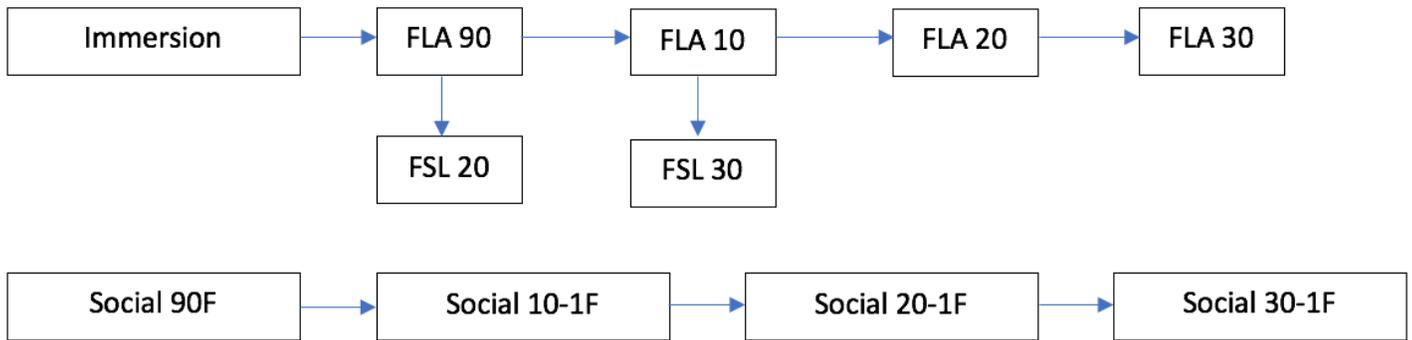
BENEFITS HEALTH: understand, experience and appreciate the health benefits that result from physical activity.

COOPERATION: interact positively with others.

DO IT DAILY: assume responsibility to lead an active way of life.

French Immersion

Students registering in French Immersion in grade 9 and grade 10 will remain in the program for that year. Requests to leave the program can be made during registration for the upcoming year. Students wishing to withdraw from the FI program and are not in Cochrane High Schools (CHS) attendance area will be asked to return to their designated school and/or complete an out-of-attendance application form to be submitted to the CHS principal.



Please Note: Students will receive a French Immersion Graduation Certificate upon completion of 30 credits in French Immersion courses. Students **must** enroll in 10 French Immersion credits per year in grade 10, 11, and 12

Course Challenge - French Second Language Arts 30

Meet diverse needs of students

- Encourage student ownership of their learning
- Acknowledge the learning that students acquire in a variety of settings
- Course challenge must be requested the first week of a new semester

The student who initiates the course challenge process shall take the responsibility for providing evidence of readiness to challenge a course, for example

- a portfolio
- collection of documentation
- recommendation from a pre-requisite teacher

If a student is unsuccessful in the challenge the student is required to take the course. There must be a qualified teacher to administer the challenge (has taught the course before). An administrator of the school will ensure the course challenge includes strategies that will assess the breadth and scope of the learning outcomes for the course as outlined in the program of studies. Upon successful completion of a course challenge, waived pre-requisite credits and a "p" for pass, for courses lower in the course sequence shall be reported by an administrator to student records. Students cannot use the pass for courses lower in the course sequence for Rutherford Scholarship submissions.

Process after student is accepted for the course challenge:

The student will develop a portfolio which demonstrates achievement of the desired outcomes corresponding to the course the student intends to challenge, as outlined in the FLA Alberta Program of Studies at <http://education.alberta.ca/francais.aspx>. The portfolio must include also a selection from each of the following outcomes:

- Speaking
- Listening
- Reading
- Writing

The challenge supervisor will create a schedule and general guidelines to be included in the portfolio. The course work and evaluation must be completed by the end of the semester.

Evaluation:

Portfolio of written work and comprehension	50%
Oral Interview	20%
Final Exam	30%

French Language Arts 10 (5 credits) Prerequisite: Enrolment as a French Immersion Student

This course is designed for students who have successfully finished the French Language Arts 9 course. The program will explore a variety of literary works the short story, the novel and plays. Through games, presentations and the study of grammar, the students will continue to develop skills in reading, writing, speaking and listening.

French Language Arts 20 (5 credits)

Prerequisite: > 50% in FLA 10

This course is a continuation of French Language Arts 10. Further study in the areas of the novel, short story, plays film, and poetry will take place. Continuing development of the students' study of grammar, writing and speaking skills remains a part of the program.

French Language Arts 30 (5 credits)

Prerequisite: > 50% in FLA 20

This course is a continuation of FLA 20. Further study in the areas of the novel, play, film, and other literary works will take place. Continuing development of the students' study of grammar, writing and speaking skills remains a part of the program. This is a diploma exam course.

Social Studies 10-1 (5 credits) Prerequisite: >60% in Social 9

Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on lands, cultures, economics, human rights and quality of life. The key focus is the extent globalization should be embraced.

Social Studies 10-2F (5 credits)

It is recommended that Students who receive below 60% enroll in Social 10-2 F

Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on lands, cultures, economics, human rights and quality of life. The key focus is the extent globalization should be embraced.

Social Studies 20-1 F (5 credits)

Prerequisite: >60% in Social 10-1F. It is recommended that Students who receive below 60% enroll in Social 20-2F

Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influence of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada. This is an academically oriented course.

Social Studies 20-2 F (5 credits)

Prerequisite: It is recommended that Students who receive below 60% in Social 10-1 F enroll in Social 20-2. Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influence of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada.

Social Studies 30-1F (5 credits)

Prerequisite: Social Studies 20-1F Perspectives on Ideology.

Grade 12 explores the origins and complexities of ideologies. Students will investigate, analyze and evaluate government policies and actions and develop individual and collective responses to contemporary local, national and global issues.

Social Studies 30-2 F (5 credits)

Prerequisite: It is recommended that Students who receive below 60% in Social 20-1 F enroll in Social 30-2 F

Grade 12 explores the origins and complexities of ideologies. Students will investigate, analyze and evaluate government policies and actions and develop individual and collective responses to contemporary local, national and global issues.



Grade 10 – 12 Option Courses

Art 10 (3 or 5 credits)

Fee: \$45.00(3) \$65.00(5)

Prerequisite: None

This studio-based course is the first of a unified, sequential program that focuses on the three major components of visual learning: drawings or delineations; compositions or structures; and encounters with art. Emphasis in Art 10 is placed on the development of a basic understanding of the elements and principles of design, drawing media and techniques, painting and sculpture. Vocabulary, art criticism and historical perspectives are also introduced. Students will be expected to pay the cost of materials for major projects.

Art 20 (3 or 5 credits)

Fee: \$45.00(3)/\$65.00(5)

Prerequisite: > 50% Art 10

This studio-based course is the second in the sequential program begun in Art 10. Students develop more confidence in their skills and refine their styles through assigned works as well as independent explorations. Portfolios are kept by the student to increase their sense of independence and responsibility for their work. Some of the areas in which the students gain competence are design, drawing, printmaking, sculpture, ceramics, painting and use of historical resources. Students will be expected to pay the cost of materials for major projects.

Art 30 (5 credits)

Fee: \$65.00

Prerequisite: > 50% Art 20

In the last course in the unified Art program, students will achieve and exhibit a personal style. They will also develop and solve their own design problems, become involved in more in-depth studies and be able to communicate ideas and criticism effectively. Students are encouraged to develop a portfolio of representative works which can be used to fulfill entrance requirements for post-secondary Art education. Students will be expected to pay the cost of materials for major projects.

Drama 10 (3 or 5 Credits)

Fee: \$25.00(3)/\$35.00(5)

Prerequisite: None

Drama aims to develop the whole person – emotionally, physically, intellectually, imaginatively, aesthetically and socially – by giving form and meaning to experience through “acting out”. Drama fosters positive group interaction as students learn to work collaboratively in order to solve shared problems. Areas of study in Drama 10 include movement, speech, improvisation, acting and theatre studies.

Drama 20 (3 or 5 Credits)

Fee: \$25.00(3)/\$35.00(5)

Prerequisite: >60% in Drama 10

Drama aims to develop the whole person – emotionally, physically, intellectually, imaginatively, aesthetically and socially – by giving form and meaning to experience through “acting out”. Drama fosters positive group interaction as students learn to work collaboratively in order to solve shared problems. Main areas of study in Drama 20 are acting, scene study, speech and writing. Students in Drama 20 are expected to rehearse and perform outside of class time.

Drama 30 (5 Credits)**Fee: \$45.00**

Prerequisite: >60% in Drama 20

Drama aims to develop the whole person – emotionally, physically, intellectually, imaginatively, aesthetically and socially – by giving form and meaning to experience through “acting out”. Drama fosters positive group interaction as students learn to work collaboratively in order to solve shared problems. Main areas of study in Drama 30 are directing and theatre creation, acting, speech and production. Drama 30 is a rigorous course. Students are expected to rehearse and perform outside of class time.

Film Studies 15/25/35 (5 credits)**Fee: \$20.00**

Prerequisites: None for 15.

Prerequisites for level 25: Film Studies 15

Prerequisites for level 35: Film Studies 25

Film Studies is the exploration of film and media art as an artistic form of expression. This course is designed to work in concert with Career and Technology Studies as well as English Language Arts to provide innovative and unique ways for students to engage in the study of this art form as well as the technological and literary aspects of the medium. The literary and storytelling aspects of film cross over with Language Arts and the technological skills fall within CTS, while Film Studies, as a course, is the artistic link that examines the medium as a form of expression.

Forensic Science 25 (3 credits)**Fee: \$20.00**

Prerequisites: Science 10 or Science 14

Designed for students who have completed Science 10 or 14. Content includes the collection and analysis of evidence from crime scenes, the principals of fingerprinting, breathalyzers, polygraphing, and DNA analysis. A major component is an analysis of real crime cases.

Forensic Science 35 (3 credits)**Fee: \$20.00**

Prerequisites: Forensic Science 25

Designed as a Grade 12 option for students who have successfully completed Forensic Science 25. The course content includes forensic anthropology, forensic entomology, forensic toxicology, ballistics, police protective equipment, police dogs, arson investigation, and criminal profiling.

FRENCH (As a Second Language)

French As A Second Language (FSL) The French program is designed to give students instruction in understanding, speaking, reading and writing the French language. It also introduces the students to the contemporary values and cultural aspects of the various groups of French-speaking people in Canada and all over the world. This program is based on a multidimensional approach to learning that is centered on four components:

The ability to comprehend and express ideas and negotiate meaning in various situations for a variety of purposes (Communication and Experience)

Linguistic elements of the French language to fulfill communicative intents (Language)

Knowledge of different Francophone cultures and the development of intercultural skills (Culture)

Strategies to enhance learning and to communicate effectively in French.

FSL 9 ----- French 10-3Y -----French 20-3Y-----French 30-3Y

French 10-3Y**Fee: \$20.00**

Prerequisite: >50% in FSL 9 (5 credits)

Themes: 1. Activities 2. Shopping 3. Vacations 4. Fine Arts

French 20-3Y (5 credits) Prerequisite: French 10-3Y or FLA 9**Fee: \$20.00**

Themes: 1. Senses and Feelings 2. Close Friends 3. Fads and Fashions 4. Consumerism

French 30-3Y (5 credits)**Fee: \$20.00**

Prerequisite: French 20-3Y or FLA 10-1

Themes: 1. World of Work 2. Travel and Tourism 3. Role of the Media

Mechatronics 10

Fee: \$60.00

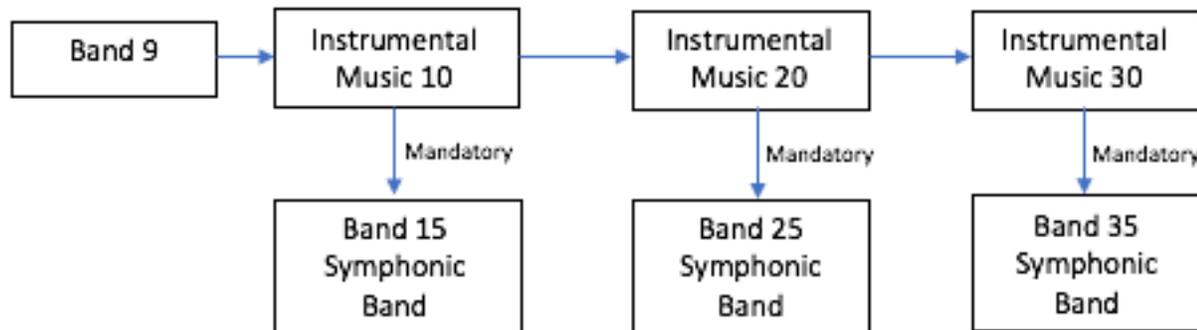
The world is changing and we want to prepare students for a 21st century workforce by providing them the opportunity to be designers, innovators and creators through hands-on experiences that give them the chance to solve problems that exist in their world. Mechatronics is a multi-disciplinary approach rooted in Human-Centric design thinking. In Grade 10 at Cochrane High, this term course will concentrate on design thinking and intermediate technical design (2-D and 3-D rendering, 3-D printing), electrotech (circuitry and soldering) and computer sciences (intermediate coding and robotics using arduino). Students will use these skills to solve real-world problems that exist in the world around them as they choose projects throughout the school year. We hope to grow and inspire the designers, technologists, programmers, and innovators of tomorrow to design their future, today!

MUSIC

Instrumental Music 10/20/30 (5 Credits)

Fee: \$65.00

The instrumental music program is a yearlong course of study that provides the student with a comprehensive introduction to music performance. Along with performance skills, there is a component of music theory & history as it pertains to the performer through music repertoire. Outside of the timetable course activities can include, but are not limited to: Music workshops, festival performances, band camps, performance observations, and concerts. Prerequisite: Previous level of Instrumental Music (with a final mark >65%), or permission from the music teacher. For more information see our music website: www.cochranehighmusic.com. Students who rent a music instrument from the school will be charged a separate \$210 fee.



PSYCHOLOGY

Abnormal Psychology (3 credits)

Fee: \$10.00

Prerequisite: General Psychology 20, Personal Psychology 20, or Experimental Psychology 30

Abnormal Psychology examines abnormal behaviour and mental illness in society. Students will study historical, current and cultural views of abnormality as well as causal factors, assessment practices, prevention and treatment. Students will gain a basic understanding of the complexity of mental illness and the nature of many different abnormal behaviours. Disorders such as depression, bipolar disorder, anxiety disorders, personality disorders, schizophrenia, and several other illnesses will be covered. The course will include assignments, journal writing, projects, tests and an in-class final exam.

Experimental Psychology (3 credits)

Fee: \$10.00

Prerequisite: General Psychology 20, Personal Psychology 20, or Abnormal Psychology 35

Experimental psychology is designed for students who have an interest in both the theory and research sides of psychology. The theory will include: memory, cognition, research methods and statistical analysis. Students will be expected to conduct an experimental study which will span the length of the term and involve design and planning, experimentation, data collection, statistical analysis, and a formal write-up. Evaluation will include assignments, journal writing, the research study, and an in-class final exam.

General Psychology (3 credits)**Fee: \$10.00**

Prerequisite: None

Psychology is the study of the human mental and behavioural processes, which ultimately leads to a better understanding of human motivation and action. This course will focus on the following topics: Historical origins and theories of psychology, principles of learning, consciousness and dreams, and adolescent psychosocial development and behaviours. A wide variety of general psychology concepts will be covered that will provide the student with an excellent introduction to the field of psychology. Evaluation will include assignments and projects, tests, journal writing, and an in-class final exam.

Personal Psychology with HeartMath (CONN3CT) (3 credits)**Fee: \$10.00**

Prerequisite: None

Personal psychology examines the inner person and provides explanations for the actions and behaviours of people. This unique course will focus on personality theories, test anxiety reduction and study skills techniques, cognitive reframing, social and emotional learning strategies, and emotional wellbeing using HeartMath sensors and self-report surveys. This course will be offered as a J-block course, with sessions running in 2 CONNECT periods (Tuesday and Thursday) each week for 1 semester. Evaluation will include assignments, projects, tests, journal writing and self-report data tracking.

Personal Psychology (Regular) (3 credits)**Fee: \$10.00**

Prerequisite: None

Personal psychology examines the inner person and provides explanations for the actions and behaviours of people. This course will focus on sensory perception and cognition, intelligence theories, and personality theories and inventories. Evaluation will include assignments, projects, tests, journal writing, and an open book final exam.

PSYC 203: Psychology of Everyday Life (5 High School credits plus 3 University credits in Psychology) Fee: \$10.00

Prerequisite: at least 1 of the 4 Psychology courses (Personal Psych 20, General Psych 20, Experimental Psych 20, Abnormal Psych 35)

This Course will focus on: research methods, personality theories, human development, interpersonal relationships, stress and coping, and mental health and wellness. It provides students with an understanding of the key theories, research methods, and discoveries of psychology, with an emphasis on developing the knowledge and skills necessary to be effective consumers of psychological theory and research. Through a focus upon issues that arrive in everyday life, this course will demonstrate some of the ways in which psychology can be of use to students in their personal and professional lives. This course will be run as a dual credit course. Students will earn 5 option credits from Cochrane High along with 3 University of Calgary credits in PSYC 203. Evaluation will include discussion board posts, assignments, a term project, two mid-term tests, and a final exam. This course will be offered as a J-Block course.

CAREER AND TECHNOLOGY STUDIES (CTS)

Within the CTS structure, all students are able to select modules within each course that develop and cultivate their individual talents, interests and abilities, and help them to build daily living skills, investigate career options and prepare for entry into the workplace and/or related post-secondary programs. Students in CTS courses work within a module system which affords students the opportunity to complete modules on an individual basis. A course may be listed as a three-credit course; however, an individual student could complete 3, 4 or more modules in the time period. One completed module equals one credit. CTS courses are taught using a student-managed approach.

(As the following courses are under the CTS studies umbrella, they will be delivered via the module method. Each student will be expected to complete a minimum of 3 modules a semester to obtain a minimum of 3 credits.)

CONSTRUCTION TECHNOLOGY

Construction technology provides students with an opportunity to develop skills in wood fabrication and forming. The safe and proper use of hand and machine tools is emphasized at all levels. Vast arrays of modules are available in the woods area. Students will be expected to supply and wear safety glasses at all times in the shop.

Construction Technology 10 (Introductory)(3) Fee: \$30.00 Prerequisite: None

Modules that emphasize the safe and proper use of hand and power tools, while allowing the student some project choice, i.e. –small solid stock furniture and wood bowls. (Some projects may require extra fees, depending on wood species and size.)

Construction Technology 20 (Intermediate) (3) Fee: \$30.00 Prerequisite: Construction Technology 10
Intermediate Level: Modules that further enhance hand and power tool skills. Projects are chosen by students, but must contain certain prescribed elements. (Students pay for project supplies at this level.)

Construction Technology 30 (Advanced) (3)

Fee: \$30.00

Prerequisite: Construction Technology 10 & Construction Technology 20

Students at this level work on projects of their choice but chosen projects must have specific elements and details that meet Alberta Education requirements. Projects tend to be large items such as desks, tables, and bookshelves. (Students pay for project supplies at this level.)

FOODS

Foods 10 Prerequisite: None

Fee: \$50.00

Foods 20 Prerequisite: Foods Basics Module 1010*

Foods 30 Prerequisite: Foods Basics Module 1010*

Modules are categorized into Introductory, Intermediate and Advanced Levels. The following modules may be offered: Food Basics 1010 (compulsory prerequisite), Contemporary Baking, Meal Planning 1, Vegetables and Fruits, Cake and Pastry, International Cuisine, Regional Cuisine, Basic Meat Cookery, Advanced Meat Cookery, Creative Baking, Milk Products & Eggs and Nutrition and Digestion. Students are expected to follow food safety and kitchen safety practices. This course offers a compulsory written component and many cooking labs.

MECHANICS & FABRICATION

Mechanics & Fabrication 10 (3 credits)

Fee: \$39.00

Prerequisite: None

Students in grades 10, 11 and 12 are eligible to take this course. Shop fees cover consumable supplies used to run the program. All parts for project cars have to be supplied by the owner. Students will be expected to supply and wear safety glasses at all times in the shop.

Mechanics & Fabrication 20 (3 credits)

FEE: \$39.00

Prerequisite: Students must have the prerequisite for the individual module.

This is an intermediate CTS course where the student will take modules dealing with a more in depth study of mechanical systems or principles of fabrication, e.g. engine tune-up, advanced metal fabrication or welding projects. Shop fees cover consumable supplies used to run the program. All parts for project cars must be supplied by the owner.

Mechanics 30 (3 credits)**FEE: \$39.00**

Prerequisite: Students must have the prerequisite for the individual module.

This advanced CTS course demands a higher level of expertise and helps prepare students for entry level into the workplace, e.g. engine removal and installation, valve repairs. Shop fees cover consumable supplies used to run the program. All parts for project cars have to be supplied by the owner.

MULTIMEDIA STUDIES**Communication Technology 10/20/30 (3 credits)****FEE: \$20.00**

Communication Technologies was formerly known as multi media or media arts. In this course you have the opportunity to learn video production, flash animation, digital design, or audio techniques. This course will teach you the foundation of skills necessary to become a video game designer, radio personality, professional DJ, advertisement executive, or the next great video producer. You will have the opportunity to use cutting edge software such as Adobe Photoshop, Flash, Illustrator, After-Effects, Final Cut, Serato, Logic Studio, I-Movie, Garageband, and many more. This course is the one for you!

PHOTO

Photo Studies 10 (3 credits)

FEE: \$10.00

Prerequisites: None

Photo Studies 1 will offer students an opportunity to learn to communicate with the camera in photography. Students will learn about basic photography composition rules, artistic uses of the camera, technical features of the camera, and presentation methods of photos. Students will learn how to download, sort and manipulate their images using the computer. Students are required to have or rent digital cameras with a minimum of ten megapixels of resolution. The school has cameras to rent (\$75.00) for the Term. The school will provide computers and industry standard software for the course.

Photo Studies 20 (3 credits)

FEE: \$10.00

Prerequisite: Modules covered in Photo Studies 10

Photo Studies 2 will enhance the student's basic photography abilities to communicate with the camera in photography. Students will review and apply skills learned in Photo Studies 1, use different lenses to create a variety of photographic perspectives, use Macro lenses to do close up work, use digital images to communicate a message or story. Students must have or rent SLR cameras whereby aperture and shutter speed can be determined. The school has SLR cameras to rent (\$75.00) for the Term. Zoom lenses and flash units are strongly recommended but may be borrowed from the school. The school will provide computers and industry standard software for the course.

Photo Studies 30 (3 credits)

FEE: \$10.00

Prerequisite: Modules covered in Photo Studies 20

Photo Studies 3 will allow the students to explore different techniques in altering and enhancing lighting arrangements for photographic purposes. Students will review skills learned in Photo Studies 1 and 2, learn about light metering and altering the position of the subject, be introduced to Flash Photography, shoot portraits using studio lights, use filters and special techniques to create images that have artificial enhancements, and become familiar with advanced digital photography capabilities. Students must have their own SLR Digital cameras whereby aperture and shutter speed can be determined. The school has cameras to rent \$75.00 for the term. Zoom lenses and on-camera flash units are strongly recommended but may be borrowed from the school. The school will provide computers, industry standard software, studio lights, filters, digital equipment and specialty equipment.

SPORTS MEDICINE

Sports Medicine 15 (5 Credits)

FEE: \$65.00

Sports Medicine 15 offers a beginning for those who are interested in such fields as sports medicine, physiotherapy, nursing, medicine, physical education or basic first aid. Students will learn about various facets of sports injuries, first aid care, therapies, and career opportunities related to Sports Medicine. The modules for this program may include: Circulatory System, Musculoskeletal System, Health and Wellness, First Aid/CPR with AED, Injury Management and Technical Foundation for Injury Management.

Sports Medicine 25 (5 credits)

FEE: \$65.00

Prerequisite: > 50% in Sports Med 15

Sports Medicine 25 is a natural progression of the Sports Medicine 15 program. Students will review first aid care and prevention, and continue an in-depth study of anatomy, injury assessment, taping, rehabilitation and nutrition.

Sports Medicine 35 (5 credits)

FEE: \$65.00

Prerequisite: > 50% in Sports Med 25

Sports Medicine 35 will incorporate knowledge from previous Sports Medicine courses into areas of Sports Psychology, Sport Nutrition, Athlete Training and Conditioning. Applying this knowledge will enhance a more hands on approach to this level. More advanced injury assessment and taping will also be covered.

SPORTS PERFORMANCE

Sports Performance – 10 (3 – 5 credits) Module Based

FEE: \$75.00

Prerequisite: Above satisfactory school attendance, > 75% in the student's last P.E. Class and recommendation from P.E. teacher.

This program is designed to meet the needs of any grade 10-12 student, who wishes to work toward personal goals related to physical activity and who have the desire to improve their sport performance and knowledge of sport related topics. Individualized programs will be developed to reach the unique goals of each student. Whether the objective of the student is to enhance their sport performance or to increase personal fitness, this course will offer the resources, support and guidance for each to meet their goals.

Students will also study the following sport related topics:

Sport Psychology	Sport Philosophy	
Nutrition	Ethics of Sport	
Sports Injuries	Individualized Training	History of Sport

Sports Performance – 20 (1 – 5 credits) Module Based

FEE: \$75.00

Prerequisite: Sports Performance 15

This is a continuation of the Sports Performance course. This program is intended for the student who has met the previous course requirement and wants to continue to work towards personal goals related to their performance in sport. The topics will continue to be explored with an increased emphasis on project work and deeper understanding of concepts.

Sports Performance – 30 (credits 3 - 5)

FEE: \$75.00

Prerequisite: Sports Performance 25

This is a continuation of the Sports Performance course. This program is intended for the student who has met the previous course requirement and wants to continue to work towards personal goals related to their performance in sport. The topics will continue to be explored with an increased emphasis on project work and deeper understanding of concepts.

WILDLIFE (ENVIRONMENTAL OUTDOOR EDUCATION)

Wildlife (Outdoor Education) courses are structured within the Career and Technology Studies, Wildlife, Environmental Stewardship and Forestry strands. Wildlife is a course that fosters student awareness and involvement in the intricate connections between humanity and the natural world, as foundation for the development of responsible community members. This course is an adventure in excellence where students can challenge themselves mentally, physically, socially and emotionally. The students will learn to utilize the great outdoors as a classroom and incorporate many skills to live an active and healthy lifestyle. The focus of these courses will be on building outdoor leadership skills, survival skills, trip preparation skills, wilderness navigation skills, outdoor cooking skills and utilizing those skills both in the classroom and the outdoors. The student will be responsible for successfully completing a course in Emergency First Aid (EFA CPR-C) in Wildlife 10. In each Wildlife course there is approximately 3 field trips and 1 weekend excursion.

Wildlife 10 (Outdoor Ed) (3 - 5 credits)

FEE \$45.00 (Plus Activity Fees)

This course has three modules: Outdoor Experiences 1 (Survival Skills), Outdoor Cooking Theory, Emergency First Aid/CPR/AED, and Introduction to Environmental Stewardship. This course is a student-centered program designed to enhance the participants' learning ability, self-confidence, and self-discipline. The students will demonstrate basic knowledge, skills and attitudes necessary for safe, comfortable outdoor experiences, pursuits and activities in all seasons. The students will be responsible for demonstrating procedures for travel in outdoor environments such as skiing, snowshoeing, cross-country skiing, hiking, backpacking, scuba diving, canoeing, mountain biking and rock climbing. The students will plan, prepare for and conduct an extended outdoor wilderness trip where they will achieve their practical component for First Aid using scenarios and make-up in the backcountry.

Wildlife 20 (Outdoor Education) (3 – 5 credits)**FEE \$25.00 (Plus Activity Fees)**

This course has three to five modules: Wilderness Navigation, Outdoor Experiences 2 (excursion), and Outdoor Cooking 2 (Practical). This course is a continuation of EOE 15 and is a student-centered program designed to enhance the participants learning ability, self-confidence, and self-discipline. The student will develop and improve knowledge and confidence in wilderness navigation skills to enhance outdoor experiences. The students will be responsible for demonstrating procedures for travel in outdoor environments such as skiing, snowshoeing, cross-country skiing, hiking, backpacking, mountain biking, canoeing, kayaking, and rock climbing. The students will plan, prepare for and conduct an extended outdoor wilderness trip. Modules will be taken from Wildlife, Environmental Stewardship and Forestry.

Wildlife 30 (Outdoor Education) (3 – 5 credits)**FEE: \$25.00 (Plus Activity Fees)**

This is a course where students will develop and demonstrate leadership attitudes, skills and knowledge in the planning and implementation of Outdoor Excursions in the backcountry. This would be a course with practical components being completed in one extended weekend trip to the backcountry. With a leadership focus the students would plan, prepare and implement all aspects of the outdoor experiences for themselves, their peers and teacher. They would develop and act on plans and strategies for responding to environmental concerns while demonstrating basic competencies such as management of information, responsibility, teamwork skills, problem solving tactics, outdoor living skills, survival skills, safety, risk management and adaptability. The Outdoor Leadership module would naturally take the students into the Introduction to Guiding module where the students would identify a variety of guiding experiences, identify a range of competencies required to provide a successful guided experience and then assume the role and responsibility of a guide. The final module would have an environmental and wildlife stewardship focus, which would be a continuation of the environmental stewardship focus of Wildlife 10 and 20. Modules will be taken from Wildlife, Environmental Stewardship and Forestry.

YOGA**Yoga 15/25/35****FEE: \$10.00**

The High School Yoga Program offers students the opportunity to study yoga as a subject in its own right. It is designed to introduce students, safely, to the basic postures (asanas), breathing techniques (pranayama), and relaxation methods of yoga. It will also introduce students to the historical roots of yoga, and give them an understanding of anatomy and physiology as it applies to this discipline.

Students will:

Perform the postures (asanas), breathing techniques and relaxation techniques of a yoga practice, and experience the wellness benefits thereof.

Develop an understanding of their unique needs, limitations and growth through yoga.

Develop the personal management skills and the knowledge to benefit personally from a regular individualized yoga program.

Acquire and apply a basic understanding of anatomy and physiology that is relevant to yoga.

Understand the historical roots of yoga as an art, science and philosophy.

Required Equipment

Comfortable clothes

Yoga mat

Blanket

Water Bottle



Off Campus Education

What is Off Campus Education?

RVS Off Campus Education programs allow students to complement their classroom studies with practical experience obtained in the workplace. They are innovative “partnerships” between the school and the community which utilize the shared financial, human, and physical resources of the community at large. This enables the community, the world of work, and the school, to all become a part of the learning environment. Courses consist of a minimum of 25 hours per credit at a work station offering 3 to 10 credits per course taken. The programs offered include Work Experience, Career Transitions, Career Internship, the Registered Apprenticeship Program, and the Green Certificate program.

Off Campus Education programming in RVS is offered through concurrent registration at the RVS Community Learning Centres.

Workplace Safety

Students enrolled in off campus programming have mandatory training in workplace safety learning about policies and procedures in place to ensure their safety and health within a workplace. Training includes hazard identification and control according to government standards and ongoing safety training and education programs offered to students. HCS 3000 – Workplace Safety Systems is a prerequisite course for the first off-campus education program taken by a student. It is a one-credit module of Career & Technology Studies acquired before any work experience credits may be given.

Workplace Practicum

Students enrolled in Workplace Practicum are part of the Knowledge and Employability program (K&E). The courses are intended to provide students with opportunities to experience success and become well prepared for employment, further studies, active citizenship and lifelong learning. Knowledge and Employability courses include and promote: workplace standards for academic, occupational and employability skills

> practical applications through on- and off-campus experiences and/or community partnerships

> career development skills for exploring careers, assessing career skills and developing a career-focused portfolio

> interpersonal skills to ensure respect, support and cooperation with others at home, in the community and at the workplace.

Workplace Practicum is the foundation of a K&E student’s programming. Students are required to successfully complete two to three placements. A minimum of 200 hours

is needed for each placement. This translates into 10 credits for each occupational course.

Workplace Practicum = Job Preparation

Work Experience Education 15/25/35

Students enrolled in the Work Experience Program are part of the regular High School Program. They can register in Work Experience 15, 25, or 35 for 3 to 10 credits. Each Work Experience course is time based; one credit for every 25 hours worked. The courses allow students to gain practical experience as they apply and expand their knowledge, skills and attitudes in contexts that will assist them in making wise decisions regarding their future education, training and employment upon leaving senior high school and allow for the smooth transition from school to work and/or post-secondary institutions.

Work Experience = Career Exploration

Green Certificate Program

The Green Certificate Program is a joint program between Alberta Agriculture and Alberta Education. This series of agricultural credit courses is based on Agriculture, Food and Rural Development's Green Certificate. It offers 11 courses in seven primary agricultural specializations. Popular courses in RVS include Equine, Cow/Calf, FEEd lot, Sheep, and Field Crop. AGR3000 is the prerequisite for this program.

Green Certificate Program = Agricultural Specialization Certification

Registered Apprenticeship Program (RAP)

The Registered Apprenticeship Program is a way for a high school student to become an Apprentice and gain credits towards both an apprenticeship program and a high school diploma at the same time. RAP is a “real-world” program, so students are regular paid employees. There are more than 49 apprenticeship trades and crafts in Alberta. Students are responsible for arranging a job placement and registering with Alberta Apprenticeship. Consultation with the Off Campus Coordinator is required before a student may register in this course.

Registered Apprenticeship = Career Training



J - Block Classes

WELCOME TO “J” BLOCK

Advanced Acting and Touring 15/25/35 (5 credits)

FEE: \$45.00

*Enrolment in Advanced Acting and Touring for Theatre is permitted with the teacher's recommendation and permission of the administration. It is strongly recommended that students have participated in: Drama, Advanced Acting/Touring, or Performing Arts. Advanced Acting/Touring for Theatre is designed to develop an appreciation of theatre as an innovative form of performance art and communication that reflects diverse social, cultural and global perspectives. Students will be creating and developing original productions, culminating with a performance at the Zone/Alberta One Act Festival.

Art 20/30 Extension (5 credits)

FEE: \$100.00

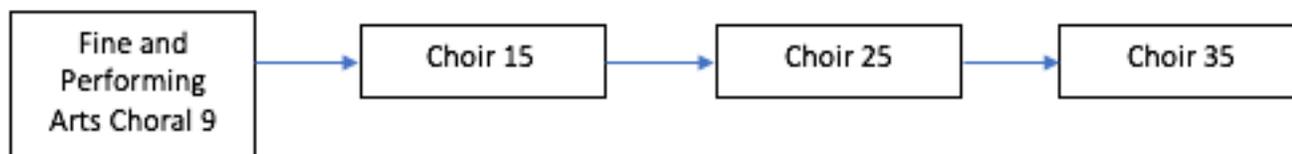
Prerequisite: Art 10 and a recommendation from the Art Teacher.

Art 20/30 extension is directed towards those students with a genuine interest and or aptitude in the visual arts and aspirations towards and advanced education in the area. It is directed as well to those students who have taken Art 10 but who have difficulty fitting Art 20 or 30 within regular instructional hours. In addition to the course objectives of the regular 20/30 course students will: Learn how to construct and present a portfolio of their artwork. This will involve a focus on still and life drawing (of great importance to prospective art colleges) and the proper presentation of one's artwork to college level art institutions. As well, students will be involved in curating and exhibiting a show of their artwork. Students choosing this course will gain a greater understanding of traditional and contemporary Art through field trips to the Art institutions in the Calgary area, i.e. Nickle Arts Museum, Alberta College of Art Gallery, Glenbow Museum and artist run galleries. As well, speakers with particular expertise in the field will give presentations relating to their Art interests. Students will also view videos relating to the subject. This course will be offered after school hours, three hours, one night a week.

Choir 15/25/35 (Full year program)

FEE: \$45.00

Choir offers students the opportunity to study choral music as a member of a vocal ensemble. This performance based course allows students to develop both creatively and critically through the interpretation of selected music. Students will explore through rehearsal, practice and performance how choirs are a vehicle for communicating emotional and intellectual intent, while provoking the same in both performer and audience. Enrolment in this course will be based on the teacher's recommendation and permission by the principal. This is a J-Block course that occurs outside of the regular time table. Students will attend a weekly mass rehearsal after school as well as regular scheduled sectional rehearsals. Students enrolled in the music program (one or more ensembles) at Cochrane High will pay an additional yearly fee of \$40 to the Cochrane High School Band Parents Association.



Fine and Performing Arts - Choral 9 (Full year program)

FEE: \$45.00

Choir offers students the opportunity to study choral music as a member of a vocal ensemble. This performance based course allows students to develop both creatively and critically through the interpretation of selected music. Students will explore through rehearsal, practice and performance how choirs are a vehicle for communicating emotional and intellectual intent, while provoking the same in both performer and audience. Choir is designed as an extension and deepening of the Choral Music 10-20-30 program. Enrolment in this course will be based on the teacher's recommendation and permission by the principal. It is recommended that students have taken the courses in sequence and accompanied by Choral 10-20-30. This is a J-Block course that occurs outside of the regular time table. Students will attend a weekly mass rehearsal after school as well as regular scheduled sectional rehearsals. Students enrolled in the music program (one or more ensembles) at Cochrane High will pay an additional yearly fee of \$40 to the Cochrane High School Band Parents Association.

Instrumental Jazz 15/25/35 (5 credits - except for gr. 9, Full Year program)

FEE: \$65.00

This is a performance-based program with rehearsals will take place on one morning a week from 7:15am-8:45am as well as additional sectional rehearsals. Instrumental Jazz is the study of a uniquely North American art form and offers students the opportunity to study the jazz idiom as a subject in its own right and as an integral part of the Fine Arts program. Instrumental Jazz is designed as an extension to the Instrumental Music 10-20-30 program, allowing for a deepening of musical skills and new understandings in a performance environment. Students enrolled in the music program (one or more ensembles) at Cochrane High will pay an additional yearly fee of \$40 to the Cochrane High School Band Parents Association.



C.H.S. Senior Leadership “Be the change that you want to see in the world.” Mahatma Gandhi

Leadership 10 (5 – 1 credit modules)

Fee: \$45.00

This introduction to the leadership program will provide the self-motivated and energetic student opportunities to participate and make a difference in the school and community. As people new to the leadership program, students in Leadership 10 will be mentored by senior students. The purpose of the program is three-fold: to generate personal growth and leadership development for students, to positively influence the culture of the school, increase school spirit, and to engage in mentorship connections within the community. At this level, students will be developing leadership skills such as goal-setting, communication, decision-making, problem solving, risk taking and team building. There will be a 25 hour volunteer community service requirement in our community. To achieve these ends, students will be engaged in individual / self-directed work as well as group and community work. Attendance is mandatory and responsibility and accountability are expectations of this program. Students may have to make application to be accepted into this program. **Classes will be scheduled on Friday morning at 7:15am as a J Block class.**

Leadership 20 (5 – 1 credit modules)

FEE: \$45.00

Recommended Prerequisite: Permission of teacher based on school/community leadership experience. This intermediate course in the leadership program will be a continuation of Leadership 1. Students will be expected to participate and make a difference in the school and community. The purpose of the program is three-fold: to generate personal growth and leadership development for students, to positively influence the culture of the school, increase school spirit, and to develop mentorship connections within the community. Intermediate level students will be expected to partner with both younger and older students in mentor and mentee positions. At this level, students will be developing leadership skills such as goal-setting, communication, decision-making, problem solving, conflict resolution, running a meeting and team activity management. There will be a community service requirement of 25 volunteer hours in our community. To achieve these ends, students will be engaged in individual / self-directed work as well as group and community work. Attendance is mandatory and responsibility and accountability are imperative in this program as students take on more of the group's leadership responsibility. Students may have to make application to be accepted into this program. **Classes will be scheduled on Friday morning at 7:15am as a J Block class.**

Leadership 30 (5 – 1 credit modules)

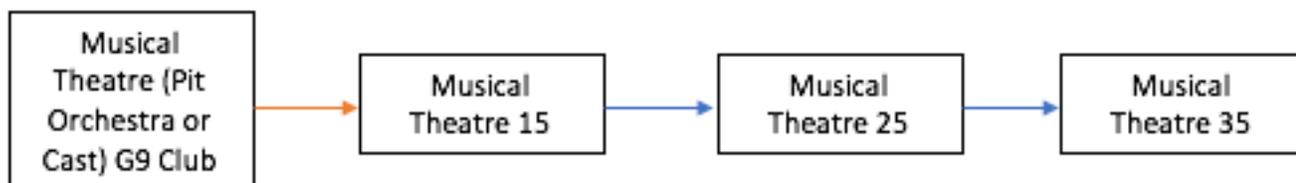
FEE: \$45.00

Recommended Prerequisite: Permission of teacher based on school/community leadership experience. This senior course in the leadership program expects the motivated and energetic student to make a difference in the school and community. The purpose of the program is three-fold: to generate personal growth and leadership development for students, to positively influence the culture of the school, a positive way the culture of the school, increasing school spirit, and to build mentorship connections within the community. As senior members in the leadership program, students in Leadership 3 will mentor younger students. At this level, students will be honing leadership skills such as goal-setting, communication, decision-making, problem solving, conflict resolution, peer influence, stress management, running a meeting and activity organization. There will be a 25 hour volunteer community service requirement both in the Cochrane community. To achieve these ends, students will work independently and interdependently in school and community work. Attendance is mandatory and responsibility and accountability are paramount in this program as students are expected to lead by example. Students may have to make application to be accepted into this program. **Classes will be scheduled on Friday morning at 7:15am as a J Block class.**

Musical Theatre 15/25/35 (5 credits)

FEE: \$65.00

Enrolment in 15, 25, 35 without the co or pre-requisite is permitted with the teacher's recommendation and permission of the principal. The musical theatre program aims to provide an interactive environment of integrated study in dance, drama, technical theatre and vocal music for students who seek the challenge of working through the creative process to performance.

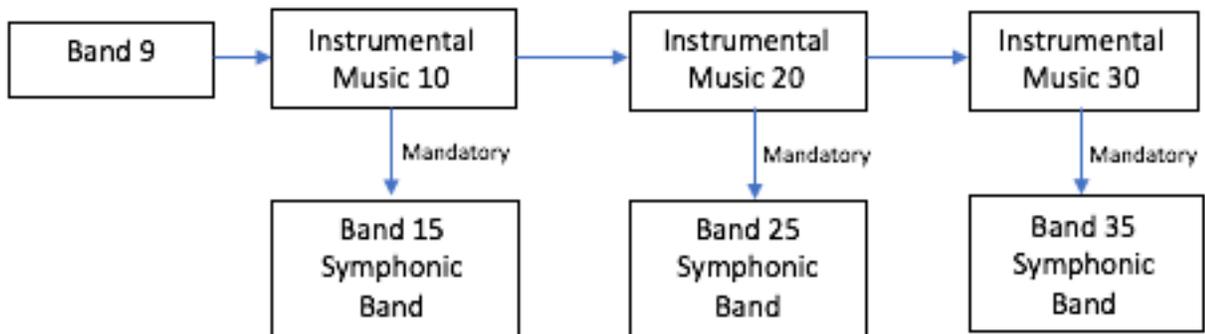


Band 15/25/35 - Symphonic Band (5 credits) Full year fee - \$65.00 (plus \$40.00 to CHS Band Parents)

Co-requisite: Instrumental Music 10/20/30

Students must register by September 15th, 2013 in order to receive marks & credit. All members will enjoy the pure performance elements of acoustical wind band repertoire and ensemble work, in real performance situations. This course provides the student with the opportunity to further develop ensemble skills and further their exposure to diverse styles of music repertoire. This Band represents Cochrane High School and will tour local schools perhaps, perform in a festival and will have the opportunity to participate in one major trip during the school year. Symphonic Band meets every Wednesday morning from 7:15am - 8:45am as well as regularly scheduled sectional rehearsals.

** Students must have completed Instrumental Music 9/10/20 with 80% or above to be in Concert Band - or by permission from the teacher. This is an academic/auditioned group.



Platinum Band (Jazz Band) Grade 9 (Full year program)

FEE \$45.00

This is a performance-based program. Rehearsals will take place on Monday mornings from 7:15am-8:45am. Activities will focus on the development of each student as a well-rounded musician. This will include technique, theory, listening, small ensemble performance and large ensemble performance. As well, we will cover and progress into more complex articulations, musical form, advanced intonation/tone/ranges/dynamics, musical phrasing, intricate rhythms, extended technique, varying tempos and time/key signatures. The development of team-work, individual practice, creativity and thinking skills are also of great importance. This course will also focus on the intricacies of jazz music and many of its facets and intricacies including, but not limited to: swing, blues, funk, improvisation, shuffle, etc.

Football Sports Performance 15/25/35 (5 credits) - Athletes

FEEs: \$200.00

Prerequisites: Must be a part of the football team.

Technical Theatre 15/25/35 (5 credits)

FEEs: \$65.00

Technical Theatre 15, 25, 35 is designed to offer students an opportunity to explore and experience the skills necessary to realize a theatrical and public performance. The course provides opportunities for students to study theatre in a production based environment. Technical Theatre is process driven, ending with public performance. Through the exploration and application of the technical aspects of theatre, students will have the opportunity to be creative and innovative, and apply multiple literacies as they solve complex problems and work toward a public performance.

