



COCHRANE HIGH SCHOOL

Grade 10-12

Course Description Handbook

(Available online at <http://cochrane.rockyview.ab.ca>)



Community, Character, Commitment

WELCOME TO COCHRANE HIGH SCHOOL

Dear Cobra Community,

We are proud of the wide range of classes that are available to students at Cochrane High School. Each of these courses is the product of a great deal of hard work by the staff at CHS; particularly the dedicated teachers who passionately deliver these curricula. For more than 50 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.

We provide an excellent academic program along with vibrant Fine Arts, Career and Technology Studies (CTS), and Second Language programs. We are in partnership with P3 Sports, who offer special programming in hockey and sports performance. In addition to our core and elective programs, we offer French Immersion for grades 9-12. Our programs are designed by staff, so all learners embrace a growth mindset to use skills, knowledge, and values to become responsible, productive citizens and lifelong learners.

Planning Your Courses

The purpose of this handbook is to help students plan their educational journey by selecting courses for the upcoming 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, course sequences, as well as descriptions of all the courses offered at CHS.

As you plan, we encourage you to consider your interests, academic achievement and long-term goals and plan your courses with advice from our guidance counsellors, career advisor, teachers, and parents. The student and their 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 plans 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 school's post-secondary website. Refer to the guidance and career section on our homepage <https://cochrane.rockyview.ab.ca/guidance-services> for information about how to make an appointment, scholarships, upcoming workshops, and presentations.

Program selection should be based on a student's current achievement, teacher recommendations, capabilities, interests, and goals. While 50% is the minimum mark to continue to the next level in any course sequence, we also include a recommended mark to continue to the next level which may be higher. Recommended marks for advancement are indicated along the arrows in the course flow charts. Flow charts for more complex course sequences are provided. It is the responsibility of the student and parent to ensure the course selections meet the requirements for graduation or specific post-secondary programs. Visit the Guidance page on our school website or contact our Career Counselor to learn more about post-secondary education requirements, opportunities, and scholarships. Use of myBlueprint will also assist in planning your program. (See below)

Selecting Your Courses

The programs in this guide are organized by core and elective courses. All students are required to take core courses. Students select from the range of elective courses in keeping with career plans and personal interests. Consider the following before selecting your courses:

1. Before you select a course, ensure that you have completed the pre-requisite.
2. Consult your teacher or the guidance department if you are not sure about the course sequence you should select.
3. Review the courses needed to complete the Alberta High School Diploma (on the next page).
4. Confirm the courses required to meet your post-secondary goals.

MyBlueprint

myBlueprint is an educational planning tool used at Cochrane High School during your four years here. All students will have myBlueprint accounts to assist with setting goals, tracking high school diploma requirements, exploring post-secondary options, and researching potential careers. Head to www.myblueprint.ca and use the access code "cochrane" (lowercase, one word) to open your account today!

myPass

myPass is an Alberta Education secure self-service website for Alberta students. Visit mypass.alberta.ca to request access to:

- View and print diploma exam results
- Order high school transcripts
- View progress towards a credential (diploma or certificate)
- View student personal information
- View and print a Detailed Academic Report (DAR)
- Order additional copies of an awarded credential in English or French
- Request diploma exam re-scores
- View and print letters of confirmation of name, age, and enrollment
- Provide third-party (including parents and guardians) access to student's myPass account

Please note that students will no longer receive diploma marks in the mail and must access them through their myPass accounts. It is mandatory that students in grades 10-12 have a myPass account. Given that @rvs email stops upon graduating, a personal email must be used to create an account.

Course Load

Grade 10 students enroll in a full course load within the regular bell schedule and may not have spares. Grade 11 and 12 students may enroll in eight courses during the regular timetable. Spares/study blocks may be granted to Grade 11 and 12 students in good academic standing (on track to graduate). All students may also enroll in one or more of the additional courses offered outside the timetable for extra credit.

Out of Province Programming for Alberta Resident Students

Families should contact the principal to discuss the implications of taking out-of-jurisdiction courses **prior** to registering for the program.

If a student successfully completes a **summer (short term)** Social Studies or English course through an out-of-province provider, this will **NOT** be considered in lieu of completing the Alberta Education authorized English or Social Studies courses required for a high school diploma. However, the student may be granted credits towards their diploma as they require 100 credits to graduate. In short, the student would still need to successfully complete a 30-level English and Social Studies class based on the Alberta Program of Studies for those courses.

If a student successfully completes a **semester-long** Social Studies or English course through an out-of-province provider, credit for the Alberta equivalent course they took **may be** granted upon evaluation of the completed course for its alignment to the Alberta Program of Studies and graduation requirements. In this case, the student would not receive a grade, rather their transcript would indicate "P" (Pass) and credits would be allocated for that English or Social Studies course.

Additional questions regarding this procedure may be directed to the Rockyview Schools Area Director. Contact information is available on the RVS website.

SELECTING

All students in grades 10 are required to take a full 40+ credit course load (no study blocks). Students in Grade 11 may access a study block after consultation with their grade level counsellor and/or administrator to ensure programming requirements are met. Grade 12 students are required to take a minimum of 30 credits in their grade 12 schedule. Exceptions may be reviewed by administration and guidance for special consideration 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 prerequisite 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 recommend 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.

Course and Timetable Changes

Essential timetable changes for both Semester One and Semester Two, are to be undertaken in the first week of school. A course drop deadline will be advertised each semester (typically September 30 and February 28). Only under exceptional circumstances would courses need to be changed at any other time of the year.

Each spring, students select core and complementary courses that form the basis of their schedules. The master timetable is designed and built from these course requests to meet most students' programming needs. It is also the single most critical element in staffing and budgeting for the next school year.

Students must choose carefully as only changes to core classes (based on status of pre-requisites) will be considered. Complementary course changes would only be considered in the case of a medical or psychological issue. In certain specific circumstances, student timetable changes are warranted and necessary. Requests for timetable changes based on teacher preference or placement with peers will not be authorized by the guidance counsellor or administration.

Please ensure you make your course selections very thoughtfully and carefully.

All school fees are estimates based on previous year course fees.

Fast-Tracking Process (Academic Acceleration)

Fast-tracking may be available to Grade 11 students only. Academic acceleration is not possible for Grade 10 students due to challenges with ensuring that there are room and resources available for 30-level courses.

In order to accelerate in an academic course sequence at a higher grade level, a student must have achieved 90% or higher in the prerequisite course, there must be space in the class, the course must fit into their timetable, and they must obtain a teacher recommendation. Decisions will be made on a case-by-case basis. Available spots are assigned according to marks. Consultations should take place with the grade level guidance counsellor or administrator. A student who is completing the prerequisite course in their first semester will be required to apply through guidance and will not be placed in accelerated courses until the application and placement process is complete (mid-late January). Students and families should be aware that progress into the subsequent fast-track course is not guaranteed; the progress may be delayed due to limits of available room and resources.

Please clearly indicate your interest in a higher grade level course at the time of registration so we can schedule your prerequisite course appropriately. NOTE: If a class becomes full, accelerated students will be removed to accommodate the needs of the grade level appropriate learners.

Appeals

Students and/or guardians wishing to appeal a final grade must do so as soon as possible after the conclusion of a course, but no later than 2 weeks after the last day of Semester One or by August 31st for Semester Two. After communicating with the teacher who assigned the final grade, if there is still a desire to appeal the final course grade, an appeal may be made in writing to the Principal of Cochrane High School and must outline the reason(s) for making the request.

Course Failures

Students taking a course for the first time will have priority over students who have previously failed a course. Consideration may be given to Grade 12 students who have failed a course required for graduation. Students who have earned a passing grade in a course will not be considered for upgrading.

Course Offerings.

While courses may be selected during initial course registration, please note that elective courses must have sufficient enrollment to be offered in the timetable. Course selection does not guarantee course registration.

WeConnect Online Classes

WeConnect provides students the opportunity to complete a course on-line through the Rocky View Schools. WeConnect courses are offered in a classroom that is supervised by our WeConnect coordinator. Daily attendance is monitored and mandatory. All students in a WeConnect class must complete the work within this classroom. A student may be granted a WeConnect block under the following circumstances:

1. A course does not fit in his/her schedule.
2. There is not a viable in-class option.
3. Graduation credits are required.
4. Space is available.
5. Approval must be granted by an administrator.

Summer School

Students may enroll in summer school through RVS's online school, Summit Trails, and information about summer school **usually becomes available in March.**

The registration process is discussed through announcements and the Commit to the C. Enrollment is on a first come basis and fills up quickly. Registration with Summit Trails must be facilitated with the CHS Guidance Department.

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 later section of this handbook. J-Block courses are subject to change and may be offered in the regular timetable if enrollment and staffing permit.

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.

Building Futures

Building Futures is an immersive and unique program for Grade 10 students 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 can 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 a new development 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.

ALBERTA HIGH SCHOOL DIPLOMA REQUIREMENTS

Students must earn a minimum of 100 credits and complete the following courses:

English Language Arts 30-1 or 30-2
Social Studies 30-1 or 30-2
Math 20-1 or Math 20-2 or Math 20-3 or Math 20-4
Science 20 or 24 or Biology 20 or Chemistry 20 or Physics 20
Physical Education 10 (3 or 5 credits)
Career and Life Management (CALM) (3 credits)

Earn 10 credits in any combination from:

Career and Technology Studies (CTS): Foods, Media Arts, Sports Medicine, Leadership
Fine Arts: Music, Drama, Visual Arts
Second Languages
Physical Education 20 and/or 30
Knowledge & Employability occupational courses
Registered Apprenticeship Program Courses
Locally Developed Courses

Earn 10 credits in any 30-level course

(In addition to 30 level English and 30 level Social Studies), including:

30 level Mathematics, Science, Fine Arts, Languages, CTS, Social Sciences, or Physical Education
Advanced level (3000 series) in Career and Technology Studies Courses
35 level locally developed/acquired and locally authorized courses
35 level Work Experience
35 level Registered Apprenticeship Program courses
30-4 level Knowledge & Employability courses

How credits are awarded:

One high school credit is equal to approximately 25 hours of instructional time. To receive credits in a course, a student must achieve a minimum mark of 50%. Credits can only be earned once in any course. A grade of 50% must be obtained to proceed to the next course in the sequence. No credits will be granted when the maximum credits in a course have been previously awarded. Students achieving between 45% and 49% in a course may, instead of repeating the course, in consultation with administration and guidance, take a course in an alternative sequence or take in credit recovery. Students with administration authorization, who successfully complete the next level course in the alternative sequence will then be granted retroactive credit for the prerequisite course. Most Grade 11 and 12 courses require prerequisite courses.

Provincial Diploma Exams

Provincial Diploma Exams are required in English 30-1 and 30-2, French LA 30-1, Social Studies 30-1 and 30-2, Mathematics 30-1 and 30-2, Science 30, Biology 30, Chemistry 30, and Physics 30. The final mark in these courses is a combination of a school mark and the provincial diploma mark. The school-based portion of the mark accounts for 70% of the overall mark with 30% being based on the diploma exam result.

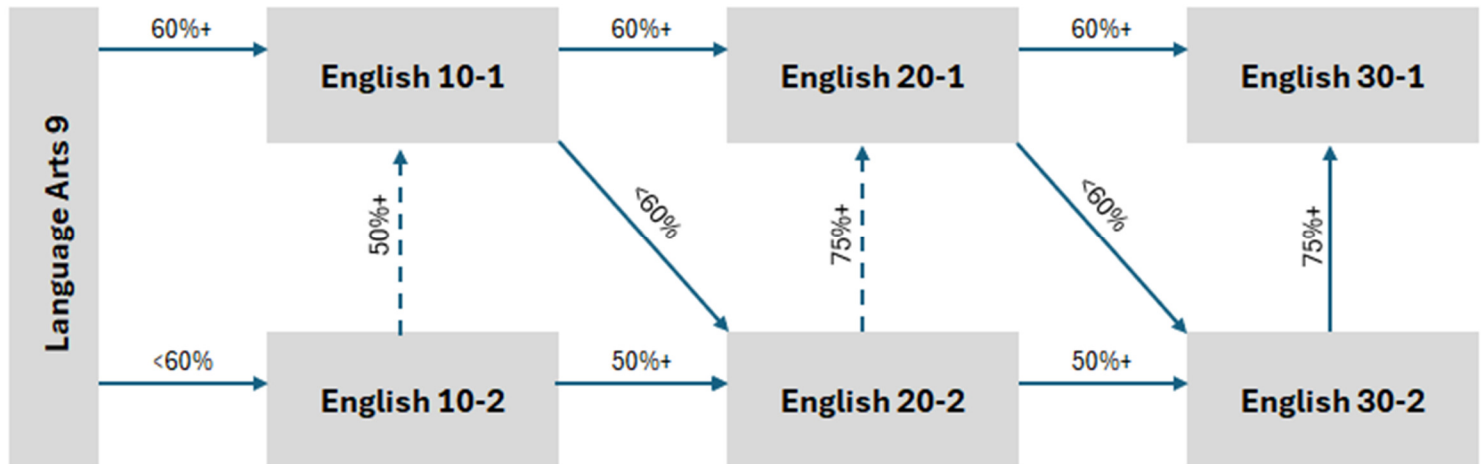
Alberta Education Website

Visit <http://education.alberta.ca> for more information about curricula and exams.

ENGLISH

English 30 is a required course for an Alberta High School Diploma.

English Course Sequences (Recommended)



English – 10-1 (5 Credits)

(Recommended level of achievement is >60% in ELA 9. It is recommended that students who receive below 60% enroll in Social 10-2.)

This program sequence is designed for students with strong reading and communication skills and an interest in literature. Students will be asked to respond critically and personally to a wide variety of texts. Successful completion of English -1 stream is a requirement for entrance to most university and some other post-secondary programs.

English – 10-2 (5 Credits)

Prerequisite: 50% in English 9

English - 2 This program sequence is designed to help students build confidence as they develop their English skills for school success, future careers, and life goals. Successful completion of this program provides access to most certificate/diploma programs in colleges and technical institutions.

For more in-depth descriptions of courses, students and parents are encouraged to reach out to the classroom teachers for a detailed course outline and potential literary works used in the course.

English 20-1 (5 Credits)

Recommended mark: >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 20-2 (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.

English 30-1 (5 Credits)

Recommended mark: >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.

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.

FRENCH IMMERSION

French Immersion is a program that offers students the opportunity to acquire language skills that are considerably more advanced than can be accomplished in the French as a Second Language courses. Students who enroll in the French Immersion Program at Cochrane High School are expected to make the commitment to remain in the program for their three years in high school. Students must plan to complete all requirements of the French Immersion High School Certificate. All courses will follow the Alberta Curriculum and are therefore part of the regular program leading to the Alberta High School Diploma. Students who are not successful in the French Immersion Program or who decide to withdraw from the program will be directed to their designated English program for the next school year. **Students wishing to withdraw from the FI program (both FLA and Etudes Sociales) and who 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.**

For graduating students to be recognized with the French Immersion cord and certificate, they must complete **BOTH FLA 30 and Etudes Sociales 30.**

Students may access FLA 10-2, 20-2, 30-2 programming within the courses below. Students wishing to change streams must meet with the French Immersion administrator to make a programming change. Families should be aware that there is no Diploma exam for FLA 30-2.

French Language Arts 10-1 (5 Credits)

Prerequisite: Enrolment as a French Immersion Student

This course is designed for students who have successfully completed the French Language Arts 9 course. The program will explore a variety of literary works from around the francophone world: the short story, the novel, as well as both theatre and film. Through a strong emphasis on the study of grammar, the students will continue to develop skills in reading, writing, speaking, and listening.

French Language Arts 20-1 (5 Credits)

Prerequisite: > 50% in FLA 10-1

This course is a continuation of French Language Arts 10-1. Further study in the areas of francophone literary works: the short story, the novel, as well as theatre, film, and poetry will take place. Continuing development of the students' study of grammar, reading, writing, speaking and listening remains a part of the program.

French Language Arts 30-1 (5 Credits)

Prerequisite: > 50% in FLA 20-1

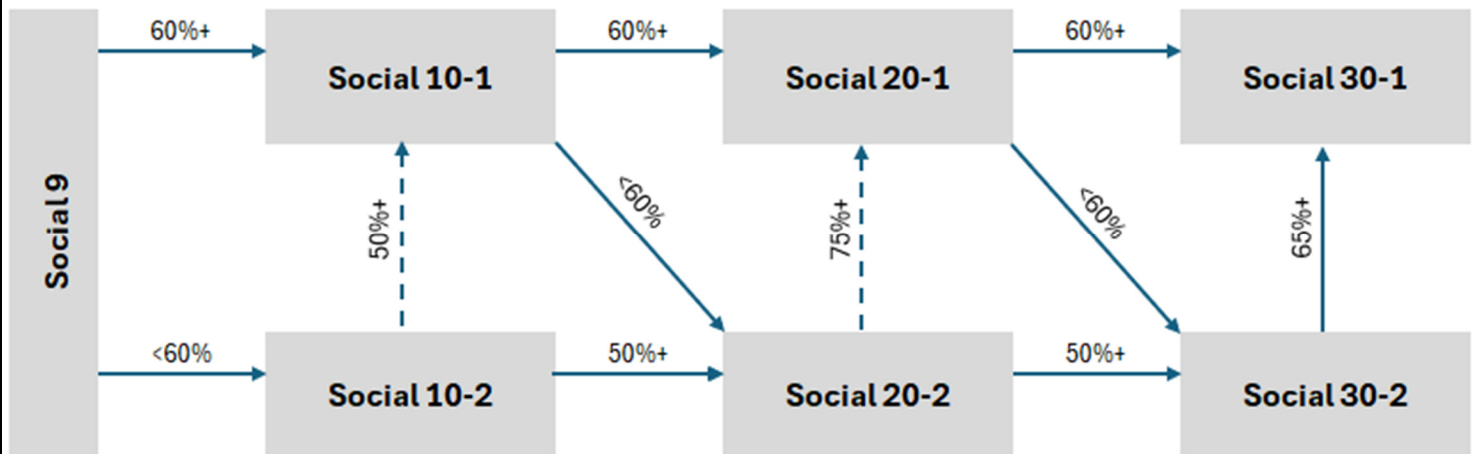
This course is a continuation of FLA 20-1. In-depth study in the areas of the short story, the novel, as well as theatre, film, and poetry will take place. Continuing development of the students' study of grammar, reading, writing, speaking and listening remains a part of the program. This is a diploma exam course.

SOCIAL STUDIES

Social Studies 30 is a requirement for an Alberta High School diploma.

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

- Understand 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



Social Studies Course Sequences (Recommended)

Social Studies –10-1 (5 Credits)

(Recommended level of achievement is >60% in Social 9. It is recommended that students who receive below 60% enroll in Social 10-2.)

This program sequence is designed for academic students with strong communication skills. Students in Social 10-1 explore the origins of globalization and its impact, locally, nationally, and internationally, on culture, economies, human rights and quality of life. Successful completion of Social Studies -1 stream is a requirement for entrance to most university and some other post-secondary programs.

Social Studies – 10-2 (5 Credits)

This program sequence begins in Social 10-2 in which students explore the history of globalization and its effects on land, culture, human rights, and quality of life. Successful completion of this program provides access to most certificate/diploma programs in colleges and technical institutions.

Social Studies – 20-1 (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 people 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.

Social Studies 30-1 (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. Successful completion of Social Studies 30-1 stream is a requirement for entrance to most university and some other post-secondary programs.

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.

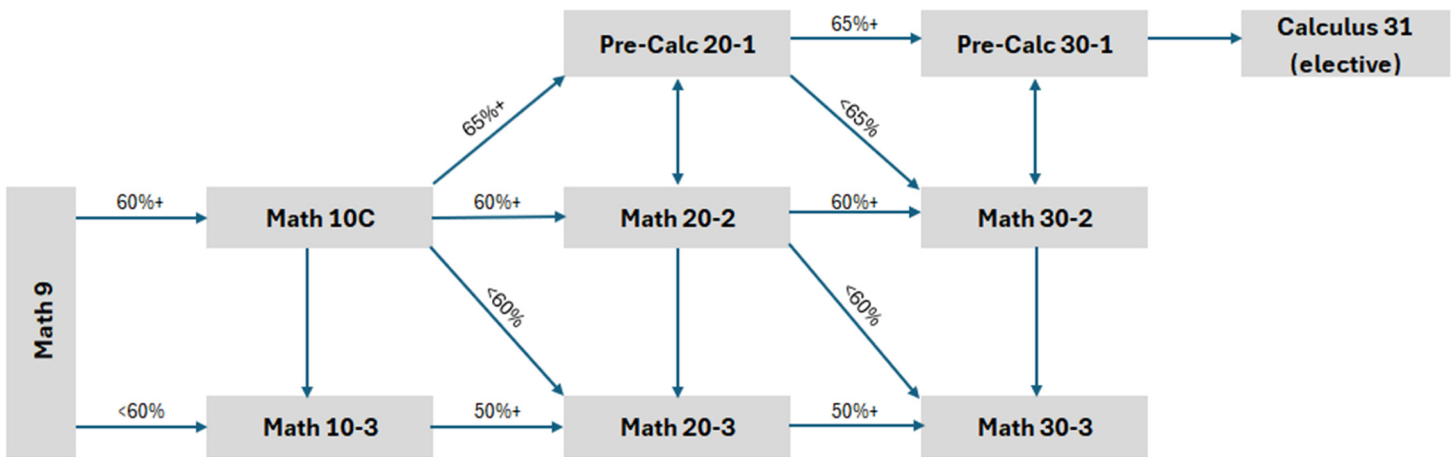
Études Sociales 10-20-30 (5 credits)

French Immersion students take the same Social Studies content outlined above in French.

MATHEMATICS

All currently enrolled Mathematics 9 students with 50% or higher may enroll in Mathematics 10C. Students with marks below 50% should enroll in Mathematics 10-3 or 10-4.

Math Course Sequences (Recommended)



Math 15 (10 Credits)

This full year course aims to provide students an opportunity to be successful in mathematics. Students must be recommended to this course by their Grade 9 teacher and will require parental consent. This course is designed for students who achieved between 55% and 60% in Math 9. Students enrolled in Math 15 will be in a full year cohort, with the objective that they will complete Math 15 or Math 10-3 in the first semester and continue to Math 10C in the second. Students will be provided with additional time and strategies, alternate approaches, and resources to build their success in mathematics.

Math 10C • 20-1 • 30-1 Sequence (5 Credits) (Pre-Calculus)

Recommended pre-requisite is >60% in previous course

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus such as engineering, mathematics, sciences, economics, and some business studies. Topics include algebra and number; measurement; relations and functions; trigonometry; and permutations, combinations, and binomial theorem. This is a pre-calculus stream.

Math 10C • 20-2 • 30-2 (5 Credits) (General post-secondary track mathematics)

Recommended pre-requisite is >50% in previous course

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of calculus including arts programs, some engineering technologies, medical technologies, and some apprenticeship programs. Topics include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics, and probability.

Math 10-3 • 20-3 • 30-3 (5 Credits)

Recommended pre-requisite is >50% in the previous course

Students who achieve less than 55% in Math 9 are recommended to take Math 10-3.

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include algebra, geometry, measurement, number, statistics, and probability.

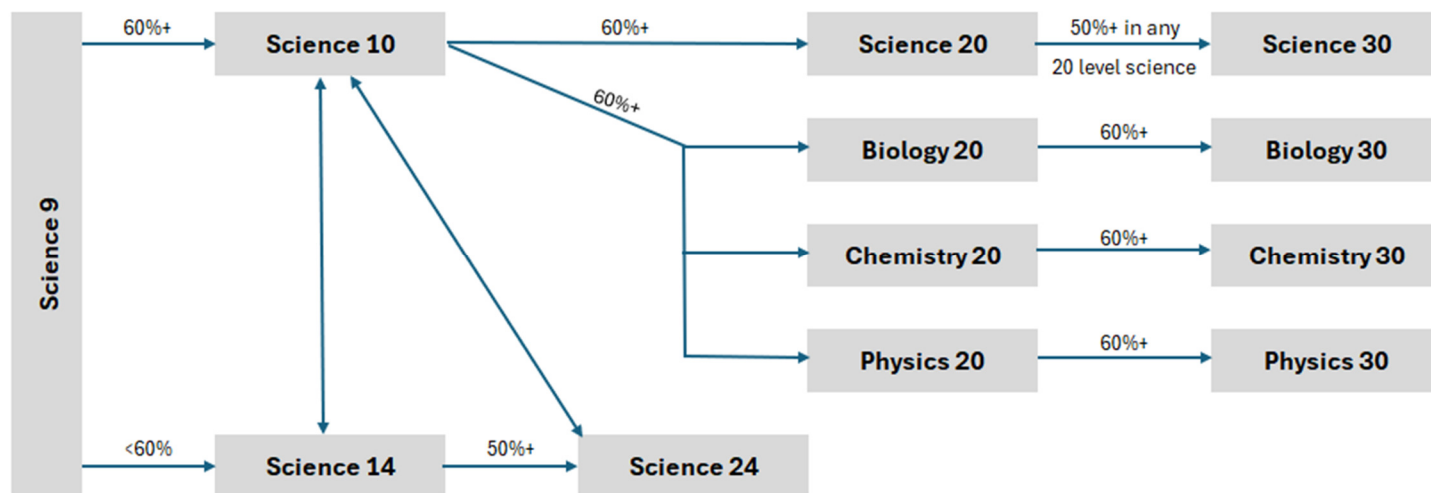
Math 31 (5 Credits)

Recommended pre-requisite: >70% in Math 20-1 and a co-requisite with Math 30-1 (can take Math 31 concurrently with Math 30-1)

Math 31 (Introduction to Calculus) is the study of limits, derivatives, integrals, and their applications. Math 31 is often a required course for application to university (STEM – science, technology, engineering, and mathematics) programs. While this course requires the use of a graphing calculator, there are also many non-calculator components and students will be expected to do much of their work without calculators.

SCIENCES

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. Students who have a mark >40% and <50% in Science 10 may apply to receive Credits for Science 14 and can then enroll in Science 24.



Science Course Sequences (Recommended)

Science 10 (5 Credits)

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

This is a general science survey course that will prepare students for and is a prerequisite for Science 20, Biology 20, Chemistry 20 and Physics 20. The coursework includes laboratory exercises, projects, and research. Units of study are:

- 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 Prerequisite: < 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.

Science 24 (5 Credits)

Recommended Prerequisite: >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.

Science 20 (5 Credits)

Recommended Prerequisite: >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 30 (5 Credits)

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

This program sequence provides students with a unified view of the biological, chemical, physical and earth sciences and an awareness of the connections among them. Science 10 is the prerequisite for all 20 level science courses. Students may take Science 30 with a grade of 50% or higher in any 20 level science course. Science 30 is accepted for entrance into university and post-secondary programs. It is a great course sequence for students who are looking to enter programs in Bachelor of Arts or Business areas

Biology 20 (5 Credits)

Recommended Prerequisite: > 60% in Science 10

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.

Biology 30 (5 Credits)

Recommended: > 60% in Biology 20

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 20 (5 credits)

Recommended: > 60% in Science 10

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.

Chemistry 30 (5 Credits)

Recommended: > 60% in Chemistry 20

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 20 (5 Credits)**Recommended: > 60% in Science 10**

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.

Physics 30 (5 Credits)**Recommended: > 60% in Physics 20**

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.

PHYSICAL EDUCATION AND CALM 20

The four general outcomes for physical education courses 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 10 (3 or 5 Credits) – PE 10 is a requirement for graduation

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. We offer two options for PE 10:

Physical Education 10 Competitive (5 credit): for students who readily embrace athletics and enjoy physical education. In this course, students will participate and challenge themselves in competitive game settings that may include volleyball, basketball, football, badminton, soccer, and other sports. Fitness, wellness, and low organizational games may also be a focus.

Physical Education 10 Wellness (3 credit): Students looking to complete the diploma requirement and looking for a less competitive environment to explore wellness activities. While covering the curriculum guidelines, the focus is more on non-competitive activities, which emphasize wellness and games. The units covered in this course will include yoga, Pilates, skating, curling, spin, meditation, low organizational games, and fitness programs with current trends.

Physical Education 20 • 30 (5 Credits) \$75.00

Prerequisite: > 50% in PE 10

In this program sequence students develop knowledge, skills and attitudes necessary to lead active, healthy lifestyles. Students participate in activities from all five dimensions of the PE curriculum: Dance, Games, Flexibility, Activities in an Alternative Environment, and Individual Activities. PE10 students take 3-Credits in one semester along with 3-credit CALM. PE20 and PE30 are full semester courses that explore a variety of activities that further develop healthy habits and lifestyle. Off-site activities may include bowling, skiing/snowboarding, laser tag, archery, swimming.

Career and Life Management (CALM 20)- CALM 20 is a requirement for graduation

CALM is a mandatory 3-credit required course for an Alberta High School Diploma. The aim of CALM is to enable students to make well-informed, thoughtful decisions and choices in all aspects of their lives, developing behaviors and attitudes that contribute to well-being and respect of self and others, now and in the future. This course examines Resource Choices, Career & Life Choices and Personal Choices. CALM is taught alongside PE 10.

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.

OPTION COURSES

SOCIAL SCIENCE

General Psychology 20 (3 Credits) \$10.00

Prerequisite: None The fee is used for, exercise books, pencil crayons, consumable supplies for labs (candy, food materials), poster paper and photocopies. 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 class activities, tests, journal writing and a term project.

Personal Psychology 20 (Regular) (3 Credits) \$10.00

Prerequisite: None The fee is used for, exercise books, pencil crayons, consumable supplies for labs (candy, food materials), poster paper and photocopies. 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 and class activities, tests, journal writing and a term project.

Experimental Psychology 30 (3 Credits) \$10.00

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

The fee is used for, exercise books, pencil crayons, consumable supplies for labs (candy, food materials), poster paper and photocopies. 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 and class activities, tests, journal writing and a term project.

Abnormal Psychology 35 (3 Credits) \$10.00

Prerequisite: General Psychology 20, Personal Psychology 20, or Experimental Psychology 30 The fee is used for, exercise books, pencil crayons, consumable supplies for labs (candy, food materials), poster paper and photocopies. 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. Evaluation will include assignments and class activities, tests, journal writing and a term project

World Geography 30 (3 Credits) \$TBD - * will be concurrently offered with World History 30*

Prerequisite: None

Geography offers an intensive study of the ways in which we interact with the world. Geography is a critical course for students' overall education and serves as an excellent primer for post-secondary education. The investigation of Geography and environmental issues requires the development and enhancement of critical and higher-level thinking skills serving as a great preparation for future educational challenges. Students develop an understanding of physical geographical processes, stakeholders, atmospheric balance, human and cultural geography and cause-response-effect relationships to gain valuable insights into contemporary resource development and exploitation. The ability to provide sound arguments based on evidence is a further dividend provided by research and investigations in this course.

World History 30 (3 Credits) \$TBD - * *will be concurrently offered with World Geography30**

Prerequisite: None

World History offers an intensive study of the history of the 20th Century from the years of 1917 to 1991. Students will be introduced to the geopolitical developments that have influenced the events of the 20th century. An immense number of important events are examined during these years. Numerous critical historical topics are studied including: **the Russian Revolution, Fascist Italy and Nazi Germany, World War II; the onset of the Cold War, the Korean War, the Cuban Missile Crisis, the Superpower Arms Race, the Vietnam War, the Soviet invasion of Afghanistan, the histories of the Middle East and Communism in Eastern Europe. The roles of important historical figures in these events such as Lenin, Stalin, Mussolini, Hitler, Churchill, Roosevelt, Gandhi, Kennedy, Khrushchev, Mao, Nixon, Mandela, and Gorbachev** are revealed in the purview of historical studies as well as the role of the masses in altering history in such events as **the Civil Rights Movement and Apartheid in South Africa** are just some of the topics covered. History is a critical course for students' overall education and serves as an excellent primer for post-secondary education.

Literature Studies 30 (5 Credits) \$TBD

Pre-requisite: English 20-1 or 20-2

This course explores a variety of literary texts including *short stories, novels, drama, poetry, and film*. While exploring ideas that are important in each of the texts studied, we will also be looking at the ways in which writers of literature create interesting effects. Reading, writing, group, and project work will be a regular part of the classroom routine. Please also bring an independent novel with you to class each day; in addition to the books we read and study together, you must pursue your own independent silent reading program in class. You will do a major novel study on at least one of the books we read. You will also practice writing sentences, paragraphs, essays, speaking authoritatively, and looking at various texts through the lens of literary criticism.

This course will examine the various periods of literature and discuss their authors, historical context, and literary dimensions. This course will help further prepare you for post-secondary research, analysis, writing, and discussion.

This Course is designed to be a complementary or companion course to ELA 30-1. It is designed as an overview to the periods of classic literature and writing in order to practice critically and personally analyzing literature to prepare for post-secondary literature studiesf

SCIENCE OPTIONS

Geology 30 (5 Credits) \$TBD

Geology 30 is an introduction to the materials that constitute the earth and the processes affecting the earth. Topics covered include atomic structure and minerals; igneous, sedimentary and metamorphic rocks; weathering, erosion and sedimentological/depositional processes; earth composition and structure; basic geophysics; plate tectonics; and economic geology. The fee covers course materials and speakers. Field trips may be additional cost.

BUSINESS AND ENTREPRENEURSHIP

Business and Finance 10-20-30 (3 Credits) \$20.00

These courses look at basic accounting, personal finance, taxation and business operations from a financial perspective. Students will build skills with financial statements and Excel.

YELL Entrepreneurship (3 or 5 Credits) \$TBD

YELL is a one-of-a-kind program that will help students develop entrepreneurial skills to take on life after graduation, no matter what career path they choose to take. This course will help network with local companies and maker labs to allow students to explore career options. This course will also introduce the idea of a business incubator and a venture challenge activity. Take an idea and learn how to test assumptions, pivot your ideas based on what you've learned and ultimately prove and validate your business concept.

Modern Languages

French as a Second Language (FSL) 10 • 20 • 30 (\$20.00)

Fees Cover: educational opportunities such as field trips, special workshops, and other experiential learning activities.

Being able to understand and communicate in French is an aspect of Canadian and global citizenship that is of ever-increasing importance. The ability to speak, understand, read, and write in French allows students to communicate with French-speaking people around the world, benefit from travel, and hold a competitive advantage in the workforce. Moreover, the study of French as a Second Language is naturally accompanied by the learning of culture, which expands students' opportunities to understand historical progression, appreciate the arts, and value diversity. In French as a Second Language, students will develop the knowledge, skills, and attitudes essential to successful participation in contemporary society.



French as a Second Language 10 (5 Credits)

Prerequisite: >50% in FSL 9

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

French as a Second Language 20 (5 Credits)

Prerequisite: FSL 10 or FLA 9

Themes: 1. Friendship 2. Fads & Fashion 3. Consumerism

French as a Second Language 30 (5 Credits)

Prerequisite: FSL 20 or FLA 10

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

Spanish 10 (5 credits)- Fee \$20.00

The fee covers: educational opportunities such as field trips, special workshops, and other experiential learning activities.

Basic skills in understanding, 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 can expect to develop an appreciation and knowledge of the Spanish language and culture using text, music, and shared experiences.

MUSIC

Instrumental Music 10 • 20 • 30 (5 Credits) \$70.00

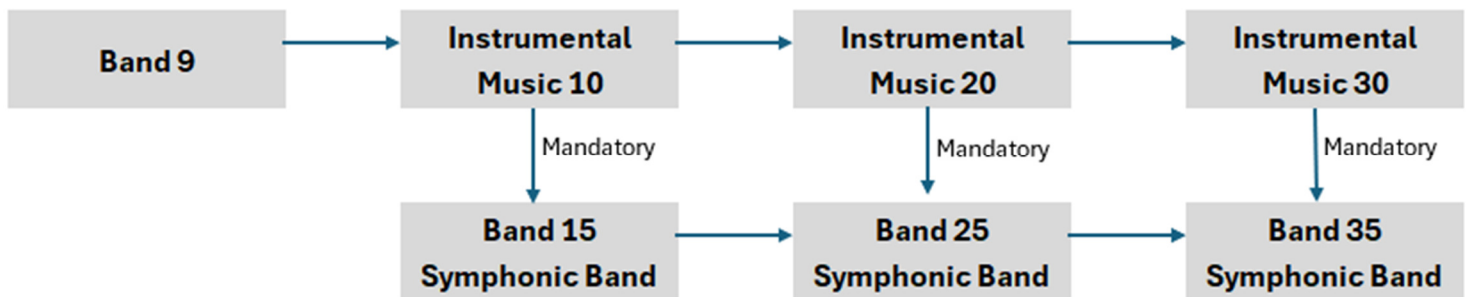
The fee is used for:

- Various music software program subscriptions (for practice, rudiments, theory, transposing parts for performance, composition, etc.
- Clinicians, private lessons, workshops
- Digital e-print music
- Classroom music supplies
- This year we also covered some PPE supplies for band

(School instrument rentals are an additional \$210 fee, and percussion and strings, and extra \$50 fee. All music students also pay a CHSBPA (Band Parent Association) Fee of around \$50) Prerequisite: Previous level of Instrumental Music with a final mark of >65%, or by permission from the music director.

The instrumental music program is a yearlong course of study that provides the student with a fun opportunity to develop instrumental music skills through performance. Students will learn some components of theory and history, as they pertain to performance skills and our music repertoire. Band is an incredible opportunity for students who love music and enjoy performing. Outside of the timetable, course activities may include, but are not limited to: Music workshops, festival performances, band camps, trips, performance observations, and concerts. Students who join band can also participate in jazz band (platinum band), and pit orchestra.

* Instrumental Music 10/20/30 students will also take a co-requisite Symphonic Band ensemble course (Band 15/25/35). This course occurs during J-Block, outside of the regular timetable.



PERFORMING & VISUAL ARTS

Art 10 • 20 • 30

Art 10 Pre-requisite – None

Art 20 Pre-requisite: > 50% Art 10

Art 30 Pre-requisite – > 50% Art 20

Art 10 (3 Credits) \$45.00

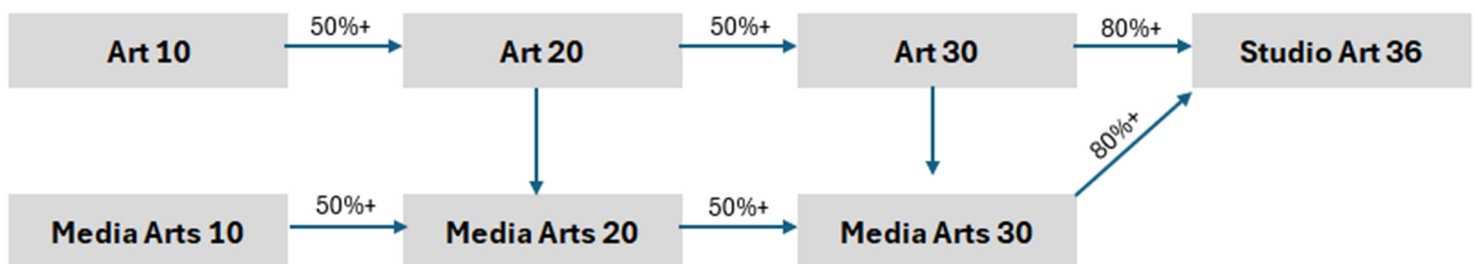
The fee consists of Art Materials such as: art folders, cardstock, drawing mylar, sketchbooks, pencils, charcoal, markers, glue, acrylic paint, watercolor paint, brushes, stretched canvas, clay, glaze, tools, blades, gesso, etc. This studio-based course is the first of a unified, sequential program that 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 (5 Credits) \$65.00

The fee consists of Art Materials such as: art folders, cardstock, drawing mylar, sketchbooks, pencils, charcoal, markers, glue, acrylic paint, watercolor paint, brushes, stretched canvas, clay, glaze, tools, blades, gesso, etc. 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) \$65.00

The fee consists of Art Materials such as: art folders, cardstock, drawing mylar, sketchbooks, pencils, charcoal, markers, glue, acrylic paint, watercolor paint, brushes, stretched canvas, clay, glaze, tools, blades, gesso, etc. 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.



Advanced Acting & Touring 15 • 25 • 35 (5 Credits) \$45.00

This fee covers: Scripts, Performance Rights, T-Shirts, and Workshops. Additional Fees: Zone Festival Field Trip and Provincial Festival Field Trip

Advanced Acting is a course designed to provide students seriously interested in the acting profession with the creative platform to explore the authentic thespian experience. Advanced Acting combines both theory and practice to develop the students' knowledge and acting experience skills. In this course, students learn the skills associated with Dramaturgy, Stage Management, Acting and Direction. Students also develop the technical knowledge and skills to enhance storytelling on the stage. Students apply the knowledge and skills developed in the course to produce One-Act production. Advanced Acting culminates in the students participating in the Zone 5 One-Act Festival and potentially showcasing their works at the Alberta One Acting Festival at Red Deer College in Red Deer, Alberta. It is highly recommended drama 10/30 is completed prior to applying from entry in Advanced Acting. ****Advanced Acting will now be offered during the bell schedule in semester two**.**

Drama 10 (5 Credits) \$45.00

Fees Cover: Scripts, Performance Rights, Costume/Set, and Workshops. Drama 10 is a course designed to provide students with the opportunity to engage in a collaborative theatrical process as a director and performer. Grade 10 students explore storytelling through the lens of Improv, Movement, and Vocalization. Drama 30 students engage in the creative process from the perspective of a director. Directors collaborate with Drama 10 actors to tell powerful stories and mentor the young artist and their newly developed skills to direct and perform One-Act performances. It is highly recommended drama 10/30 is completed prior to applying from entry in Advanced Acting.

Drama 20 (5 Credits) \$45.00

Fees Cover: Scripts, Performance Rights, Costume/Set, and Workshops

Drama 20 is a course designed to provide students with the opportunity to engage in an in-depth exploration of acting and playwriting. Students explore the engage in activities to enhance their abilities as creative writers and actors on the stage. Students perform both scripted and created works, eventually culminating in an original One-Act play created, produced, and performed by the students. Students who create exceptional works are qualified to present at the Zone 5 One-Act Festival and potentially showcasing their productions at the Alberta One Acting Festival at Red Deer College in Red Deer, Alberta.

Drama 30 (5 Credits) \$45.00

The fee covers scripts, performance rights, costume/set, and workshops. Drama 30 is a course designed to provide students with the opportunity to engage in a collaborative theatrical process as a director and performer. Drama 30 students engage in the creative process from the perspective of a director. Directors collaborate with Drama 10 actors to tell powerful stories and mentor the young artist and their newly developed skills to direct and perform one-act performances.

SPORTS PERFORMANCE and SPORTS MEDICINE

Sports Performance 10 (3 – 5 Credits) Module Based \$50.00

Fee covers the cost of a t-shirt, admission fees for various fitness facilities such as yoga and spin, as well as online fitness programming. 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 (3 – 5 Credits) Module Based \$50.00

Prerequisite: Sports Performance 10

Fee covers the cost of a t-shirt, admission fees for various fitness facilities such as yoga and spin, as well as online fitness programming. 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) Module Based \$50.00

Prerequisite: Sports Performance 20

Fee covers the cost of a t-shirt, admission fees for various fitness facilities such as yoga and spin, as well as online fitness programming. 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 Medicine 10 • 20 • 30

Sports Medicine 10 Pre-requisite: None (1-3 Credits) Module Based \$30.00

Sports Medicine 20 • 30 Pre-requisite – Previous Level. (3-5 Credits) Module Based \$30.00

Sports Medicine 10 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 20 is a natural progression of the Sports Medicine 10 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 30 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.

Outdoor Pursuits (ENVIRONMENTAL OUTDOOR EDUCATION)

Wildlife (Environmental and 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.

Outdoor Pursuits 10 (3 - Credits) \$45.00 (Plus Activity Fees)

Prerequisite: None

This course has four modules: WLD1100 (Outdoor Cooking Theory), WLD1130 (Survival Skills), ENS1010 (Intro to Stewardship), HCS2020 (Emergency First Aid). 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.

Outdoor Pursuits 20 (3 Credits) \$25.00 (Plus Activity Fees)

Prerequisite: Outdoor Pursuits 10

This course has three to five modules: WLD2100 (Outdoor Cooking Practice), WLD2130 (outdoor Experience), ENS1020 (Fostering Stewardship), WLD1060 (Wilderness Navigation). 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.

Outdoor Pursuits 30 (3 Credits) \$25.00 (Plus Activity Fees)

Prerequisite: Outdoor Pursuits 20

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. WLD3140 (Introduction to Guiding), WLD3130 (Outdoor Leadership), WLD3020 Wildlife Protection and Stewardship.

R.O.A.M.S (Grade 10)

Fee \$1200.00

CHS ROAMs (Rivers, Oceans And Mountains) is an opportunity to do schooling differently. It's a one semester outdoor education academy where 10th grade students develop essential skills for life while studying and receiving credit for the following courses: ELA10, Social Studies 10, Environmental and Outdoor Education, PE, CALM, and Photography. This cohort of students, and their teacher Mr. Talen, will be together every day for semester 2 - much of this time will be spent outside (including many off-campus field trips)!

This program will run during all of Semester 2 2023-2024 and will follow the same calendar schedule as the rest of Cochrane High School. After completing this semester, students will receive credits for 10th grade ELA (5), Social (5), PE (5), Outdoor Education (5), CALM (3), Photography (3). During the first semester, students will take regular classes at CHS in science and math and various options they choose. Students enrolled in j-block classes like Art, Theatre, Band, Choir could finish their 10th grade year with over 60 credits (100 needed to graduate)! We'll be out of the school building often on trips to various natural areas in Alberta, most of these will be during the school day (9:00am-3:40pm). The students will also plan and participate in several overnight trips - these will take place during the school week. The cost of this experiential course will be approximately \$1200 - this will include all travel, overnight food, accommodations, and service providers for the semester. Please let us know if finances are a barrier for your child's participation in this course.

French Immersion Note: ROAMs is offered in English only. FI students interested in this program should know that the Social Studies portion of this course is offered only in English.

What type of student would fit best in this program?

This program is open to anyone from zero experience in the outdoors to seasoned outdoor students. Likewise, in terms of academics, we're looking for a diverse student population; just as we would find in any other class at CHS. The only expectations are that the student is curious and willing to try new things, willing to work with others, and willing to embrace frustrating/difficult situations when they arise.

For more information about the CHS Roams Program, please visit: www.cochranehighroams.ca or contact Jander Talen at Cochrane High School jtalen@rockyview.ab.ca

CTS BASED OPTIONS

Within the CTS structure, all students can 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. 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.)

MEDIA & COMPUTER SCIENCE

Design Thinking for Innovation 10 (3 Credits) \$65.00

The fee includes each student goes home with an arduino-equivalent microprocessor and bundled kit. It also covers the cost of consumables including filament for 3D Printing. 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!

Design Thinking for Innovation 20-30 (3 Credits) \$65.00

The fee includes each student goes home with an arduino-equivalent microprocessor and bundled kit. It also covers the cost of consumables including filament for 3D Printing. 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!

Forensic Studies 25 (3 Credits) \$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 Studies 35 (3 Credits) \$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 profile.

MECHANICS- subject to staffing and teacher availability.

Mechanics 10 (3 Credits) \$51.60

Prerequisite: None

Students in grades 10, 11 and 12 are eligible to take this course. This fee covers safety glasses, metal, paint, fasteners, chemicals, tire supplies, and all grinding, sanding, sand casting, welding consumables. This introductory CTS course will help you to understand what it takes to properly maintain a vehicle. You can become a better-informed consumer or even choose to do your own maintenance and repairs. You will have the opportunity to learn both theory and practical application of these three modules: Vehicle Service & Care, Electrical Fundamentals, and Engine Fundamentals. Safe practice and work habits are essential in the shop and classroom. Safety glasses will be provided and must be worn while working in the shop. Shop fees cover consumables and materials used to run the program.

Mechanics 20 (3 Credits) \$51.60

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

This fee covers safety glasses, metal, paint, fasteners, chemicals, tire supplies, and all grinding, sanding, sand casting, welding consumables. This intermediate CTS course where students will study the automotive sub systems that keep vehicles running. Students will have the in-depth opportunity to learn both theory and practical application in each of module. Safe practice and work habits are essential in the shop and classroom. Safety glasses will be provided and must be worn while working in the shop. Shop fees cover consumables and materials used to run the program.

Mechanics 30 (3 Credits) \$51.60

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

This fee covers safety glasses, metal, paint, fasteners, chemicals, tire supplies, and all grinding, sanding, sand casting, welding consumables. This advanced course will help students continue to develop their knowledge, and skills preparing them for entry into the workplace. Students will enhance previously developed work skills in a vehicle repair environment, and further their understanding of vehicular system service and repair procedures. Students will have the opportunity to learn both theory and practical application in each of modules. Safe practice and work habits are essential in the shop and classroom. Safety glasses will be provided and must be worn while working in the shop. Shop fees cover consumables and materials used to run the program.

WOODWORKING (CONSTRUCTION)

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, always in the shop.

Woodworking (Construction) 10 (Introductory) (3 Credits) \$90.00

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.)

Woodworking (Construction) 20 (Intermediate) (3 Credits) \$90.00

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.)

Woodworking (Construction) 30 (Advanced) (3 Credits) \$90.00

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 • 20 • 30 Fee of \$62.00 per course

Foods 10 Pre-requisite – None

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.

COSMETOLOGY

Cosmetology 10 (Introduction) (3 Credits) \$60.00

Cosmetology 20 (Intermediate) (3 Credits) \$60.00

Cosmetology 30 (Advanced) (3 Credits) \$60.00

Cosmetology 10 is a course designed to give an exploration into the world of cosmetology and esthetics. This class will have a focus on the working with personal and professional style, long hair design, and manicures. This is a foundational course that leads into Cosmetology 20 and 30.

Modules to be offered:

COS 1010 - Personal and Professional Practices

COS 1020 - Long Hair Design 1

EST 1070 - Manicure 1

Cosmetology 20/30 will build on the foundations taught in Cosmetology 10.

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 workstation 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

AGR3000 is the prerequisite for this 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

ALTERNATIVE ELECTIVES

SAIT Dual Credit - Dual credit courses allow students to receive high school credit and access credit to post-secondary courses. These will be conducted in partnership with the Cochrane Learning Connection (CLC). Please see guidance or administration for more details.

Welding Dual Credit- Olds College

Students at CHS have the opportunity to take part in a dual credit welding program in cooperation with Olds College. Students attend Olds College on a series of Fridays throughout the semester to learn welding and metal working skills. This opportunity is provided to Grade 10 and 11 students and is offered through a selection process depending on room. Interested students should speak to their guidance counsellor about this opportunity and how to apply to be considered.

J BLOCK CLASSES

WELCOME TO “J” BLOCK

*****J-Block courses run before and after regular school hours and are on the timetable as Block 6 and 7**.***

Choir 15 •25 •35 (Full Year Program) \$50.00

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 timetable. 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) \$70.00

(Secondary instrument rentals are available for \$50 for the year)

Prerequisite: Being enrolled in Instrumental Music 10 •20 •30

This is a jazz performance-based program which focuses on the development of each student as a well-rounded jazz musician and deepening a student's musical skills through jazz repertoire. Study will include performance and technical skills, jazz theory, listening, small/large ensemble performance, and musicianship. The course will also focus on the intricacies of jazz music, advanced articulations, phrasing, performance skills, and the opportunity to improvise. We will cover many different genres from Swing, Blues, Funk, Latin, Rock, etc.

This is a J-block course which occurs outside of the regular timetable, one morning per week from 7:15 – 8:50 am, as well as sectional rehearsals and workshops throughout the month.

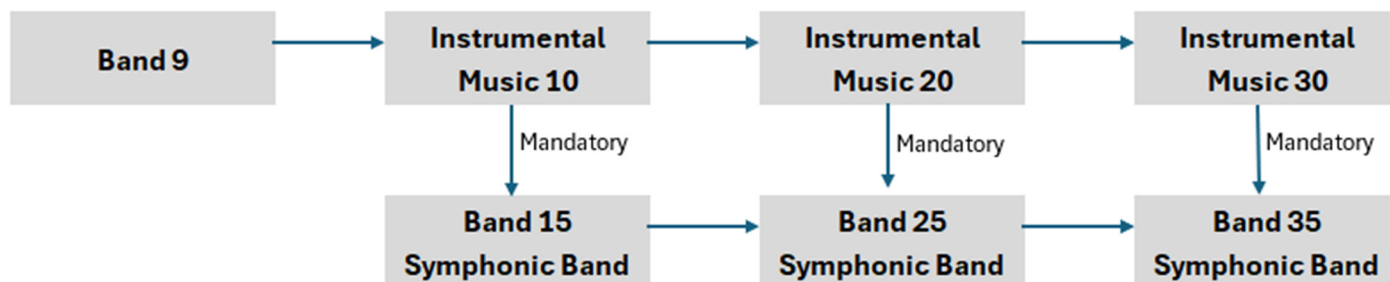


Band 15 •25 •35 Symphonic Band (5 Credits) \$70.00

(Secondary instrument rentals are available for \$50 for the year)

Co-requisite: Being enrolled in Instrumental Music 10/20/30

This is our large ensemble for grade 10 – 12 students which represents our music program on our major tour, school tours, additional festivals, and performance opportunities. Our Symphonic Band provides the student with the opportunity to further develop ensemble skills in a large ensemble setting, and further their exposure to diverse styles of music repertoire. **This is a J-block course which occurs outside of the regular timetable**, one morning per week from 7:15 – 8:50 am, as well as sectional rehearsals and workshops throughout the month.



CHS Senior Leadership “*Be the change that you want to see in the world.*” Mahatma Gandhi Leadership 10 (5 –1 Credit Modules) \$50.00 *Application Required*

The fee pays for supplies used for games, activities, poster making materials, paint, etc. It also pays for food and treats for class as students often stay after school / late to work on projects, and for guest speakers for the program. 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) \$50.00

The fee pays for supplies used for games, activities, poster making materials, paint, etc. It also pays for food and treats for class as students often stay after school / late to work on projects, and for guest speakers for the program. 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) \$50.00

The fee pays for supplies used for games, activities, poster making materials, paint, etc. It also pays for food and treats for class as students often stay after school / late to work on projects, and for guest speakers for the program. 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 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) \$70.00

Fees Cover: Scripts, Performance Rights, Costume, T-Shirts, and Workshops. Additional Fees: Musical Theatre Hoodies and Other PVA Clothing Products Musical Theatre is a course designed to allow students to explore performance in an authentic professional environment and become triple-threat artists. Students from multiple artistic backgrounds such as Dance, Singing, Acting, visual, and technical arts collaborate to achieve a common goal and build community. Musical Theatre is a J-Block course occurring outside the regular timetable. Enrolment in the program is based on an audition process and meeting the required pre-requisites. The students engage in a challenging, structured and rewarding process culminating in a live audience's professional performance experience.

Musical Theatre 15 • 25 • 35 (5 Credits), which includes Pit Orchestra \$70.00

Enrolment in Musical Theatre 15, 25, 35 is permitted with the teacher's recommendation and permission of the principal. **Auditions are typically held in June for this course.** The musical theatre program aims to provide an interactive environment of integrated study in dance, drama, technical theatre, instrumental pit orchestra music, and vocal music for students who seek the challenge of working through the creative process to performance.

**Technical Theatre 15 • 25 • 35 (3 Credits) \$70.00**

The fee covers a t-shirt, workshops and equipment. 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.

Cobra Athlete Sports Performance (in J Block) – \$135.00**Prerequisites: Must be a part of a Cobra athletic team**

The fee covers the cost of a t-shirt, admission fees for various fitness facilities such as yoga and spin, as well online fitness programing. **Note:** If this is taken, students do not choose regular Sports Performance.