

**Westmount Charter School**

**Course Selection Handbook**

**Grades 10-12**

**2024 - 2025**

## **Program Planning and Course Selection for High School**

Students at Westmount Charter going into grades 10-12 have the opportunity to access a variety of supports when planning their high school program.

In March, SOURCE classes will address how to plan a balanced program over the course of their high school years. Students will be guided through high school graduation requirements, what to expect in high school at each grade level, how a well-rounded program includes a balance of academics and options, and preparation for post-secondary/life after high school. A template for program planning will be shared with students.

Students have the opportunity to meet with a member from Student Services or Admin to go through their program plan, ask specific questions, and get support for post-secondary planning. There will be drop in sessions in March during lunch in Student Services, or you may book an appointment with SS or admin.

Students planning to apply to post-secondary (university, college, technical schools) need to go to the website of the institution and look up the entrance requirements for the program they are interested in. If students are uncertain about their future goals, they can access our Career Centre in Student Services either by dropping in to look at the resources or making an appointment with Mrs. Kesik. The Career Centre also provides information on scholarships, and this information is continually updated on PowerLearn under the Career Education page.

Once program planning sessions have been completed, course selection will be **available online only**. Students will access this through the PowerSchool portal. Please ensure you have set up access prior to course selection. Information will be sent out via Communications regarding the date it will be available.

### **Planning your High School Schedule**

Below is the link to a fillable 3 year course planning tool. Please save a copy to your google docs to use in your planning. You will need this completed if you need to do a schedule change in June.

[Fillable 3 year course planning tool](#)

# High School Graduation Requirements

## Alberta High School Diploma: Graduation Requirements

*To attain an Alberta High School Diploma, a student must meet all requirements listed below. Post-secondary institutions and workplaces may require additional and/or specific courses for entry. Courses in red are not offered by Westmount Charter School, but still count toward the Alberta High School Diploma requirements and will be accepted.*

A student must have a total of 100 credits with the following criteria:

5 credits in a 30-level English Language Arts course:  
(English Language Arts 30-1 or 30-2)

5 credits in a 30-level Social Studies course:  
(Social Studies 30-1 or 30-2)

5 credits in a 20-level Mathematics course:  
(Mathematics 20-1, 20-2, or 20-3)

5 credits in a 20-level Science course:  
(Biology 20, Chemistry 20, or Physics 20, Science 20 or Science 24)

3 credits in Physical Education 10

3 credits in Career and Life Management

A total of 10 credits, in any combination, from the courses below:

- Career & Technology Studies (CTS)
- Fine Arts
- Second Languages
- Physical Education 20 and/or 30
- Registered Apprenticeship Programs

A total of 10 credits, in any combination, in any 30-level courses.

*This is in addition to English Language Arts and Social Studies listed above.*

- 30-level mathematics, science, fine arts, second languages, CTS, or physical education
- 30-level locally developed courses
- 30-level Work Experience
- Advanced level (3000 series) in CTS courses

## SOURCE

Every student at Westmount is enrolled in a SOURCE class. The SOURCE program provides meeting times for students to connect with their peers and SOURCE teacher as well as to fulfill CALM curriculum, plan for post-secondary, and develop character/life skills. Beginning in grade 9, students loop with the same SOURCE teacher and cohort until they graduate. In grade 10 and 11, students will complete the CALM curriculum along with opportunities for character development, DEI, and wellness. In grade 12, students will focus on post-secondary plans and life after Westmount but also have time to reflect on their high school experience and mentally prepare for what comes next. SOURCE stands for Sense of Self, Organization, Understanding Relationships, Creative Expression/Career Exploration.

## Humanities

Course Name	Description
<b>Humanities 10-1</b> (grade 10)  10 credits	<b>Prerequisite: Language Arts 9 &amp; Social Studies 9</b>  Humanities 10-1 will incorporate the skills and understanding expected of both English 10-1 and Social Studies 10-1. As the Social Studies curriculum focuses on Globalization, aspects of it will be explored in greater depth via literature, film, drama and images. Students will explore and practice several methods by which to critically analyse text. Written expression will draw upon formats and topics that pertain to both grade 10 foundational courses.  <b>Note:</b> student final report cards will report this as English 10-1 and Social Studies 10-1.
<b>Humanities 20-1</b> (grade 11)  10 credits	<b>Prerequisite: Humanities 10-1</b>  Humanities 20-1 will incorporate the skills and understanding expected of both Social Studies 20-1 and English 20-1. As the Social Studies 20-1 curriculum focuses on nationalism, this concept will be explored in depth through literature, film, drama and images. Students will build their communication skills by responding to texts both critically and creatively. Written and oral expression will focus on formats and topics that are foundational to both Social Studies 20-1 and English 20-1.  <b>Note:</b> student final report cards will report this as English 20-1 and Social Studies 20-1.

<p><b>Humanities 20-1 AP</b> (grade 11)</p> <p><i>13 credits:</i> 5 English 20-1 5 Social 20-1 3 European History 35</p>	<p><b>Prerequisite: Humanities 10-1</b></p> <p>This course is an introduction to the study of European History (c. 1450 CE - c. 2000 CE) at the college level while combined with the earning of credits for Social Studies 20-1 and English 20-1. We begin in the early modern period with such topics as the Renaissance and Reformation and move all the way up to the state of Europe at the start of the 21<sup>st</sup> century. The content of AP European History will be blended with Humanities 20-1.</p> <p>Humanities 20-1 will incorporate the skills and understanding expected of both Social Studies 20-1 and English 20-1. As the Social Studies 20-1 curriculum focuses on nationalism, this concept will be explored in depth through literature, film, drama and images. Students will build their communication skills by responding to texts both critically and creatively. Written and oral expression will focus on formats and topics that are foundational to both Social Studies 20-1 and English 20-1.</p> <p>The AP exam for European History happens annually in May.</p> <p><b>Note:</b> Student final report cards will report this as English 20-1, Social Studies 20-1, European History 35</p>
<p><b>Humanities 30-1</b> (grade 12)</p> <p>10 credits total: 5 credits Social Studies 30-1 5 credits English 30-1</p>	<p><b>Prerequisite: Humanities 20-1</b></p> <p>Humanities 30-1 will incorporate the skills and understanding expected of both Social Studies 30-1 and English 30-1. As the Social Studies 30-1 curriculum focuses on ideologies, this concept will be explored in depth through literature, film, drama and images. Students will build their communication skills by responding to texts both critically and creatively paying particular attention to literary structures and the understanding of themes. Written and oral expression will focus on formats and topics that are foundational to both Social Studies 30-1 and English 30-1.</p> <p><b>Note:</b> Student final report cards will report this as English 30-1 and Social Studies 30-1.</p>
<p><b>English 30-1</b> (grade 12)</p> <p>5 credits</p>	<p><b>Prerequisite: English 20-1 or Humanities 20-1</b></p> <p>English 30-1 is the last in a series of three 5-credit courses designed for students to be actively involved in enhancing their skills in critical understanding and assessment of literature, specifically literary structure and technique.</p> <p>Students will continue to refine and develop their ability to express ideas, opinions and viewpoints through critical reading, writing, listening, speaking, viewing, and representing.</p>

<p><b>Social Studies 30-1</b> (grade 12)</p> <p>5 credits</p>	<p><b>Prerequisite: Social Studies 20 or Humanities 20-1</b></p> <p>Social Studies 30-1 attempts to address the following questions: “To what extent should we embrace an ideology?” Students will explore the origins and complexities of ideologies and examine multiple perspectives regarding the principles of classical and modern liberalism. An analysis of various political and economic systems will allow students to assess the viability of the principles of liberalism. Developing understanding of the roles and responsibilities associated with citizenship will encourage students to respond to the emergent global issues and develop their own personal point of view on modern liberalism.</p>
<p><b>English 35 AP</b> (grade 11/12)</p> <p>3 credits</p> <p>May run concurrently with English 30-1 or Humanities 30.</p>	<p><b>Prerequisite: English 20-1</b></p> <p>English 35 AP Literature and Composition is an advanced high school course that challenges students to explore classic and contemporary literary works. Emphasizing critical reading, analytical writing, and thoughtful discussion, the curriculum covers various genres, including novels, plays, poetry, and essays. Students will develop skills in close reading, textual analysis, and interpretation, gaining a deep understanding of literary techniques and themes. The course also focuses on honing writing abilities through essays that demonstrate well-organized and persuasive arguments. Successful completion of AP English Literature and Composition not only prepares students for the AP exam, but also equips them with valuable skills for college-level coursework.</p> <p>Note: Students are not required to write the AP exam to receive high school credits for this course.</p> <p>Recommendation: Students are recommended to have achieved 80% or above in Humanities 20-1 to be successful in the course.</p>
<p><b>*NEW*</b></p> <p><b>English 30/35 AP</b> (grade 11/12)</p> <p>8 credits total 5 credits English 30-1 3 credits English 35 AP</p>	<p><b>Prerequisite: English 20-1</b></p> <p>This course is an enriched version of the English 30-1 program, covering both English 30-1 and English 35 AP. The course runs all year and consists of a daily session in term 1 and an alternate day session in term 2. The nature of the course requires a substantial commitment to keeping up with assigned reading.</p> <p>Students will be completing both the AP and the Alberta English 30 program within this course; it is designed as a full year course – entrance into the AP section of the course is not an option for students who have previously completed English 30-1.</p> <p>Note: Students are not required to write the AP exam to receive high school credits for this course.</p> <p>Recommendation: Students are recommended to have achieved 80% or above in</p>

	Humanities 20-1 to be successful in the course.
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## Mathematics

### Course Sequences and Topics:

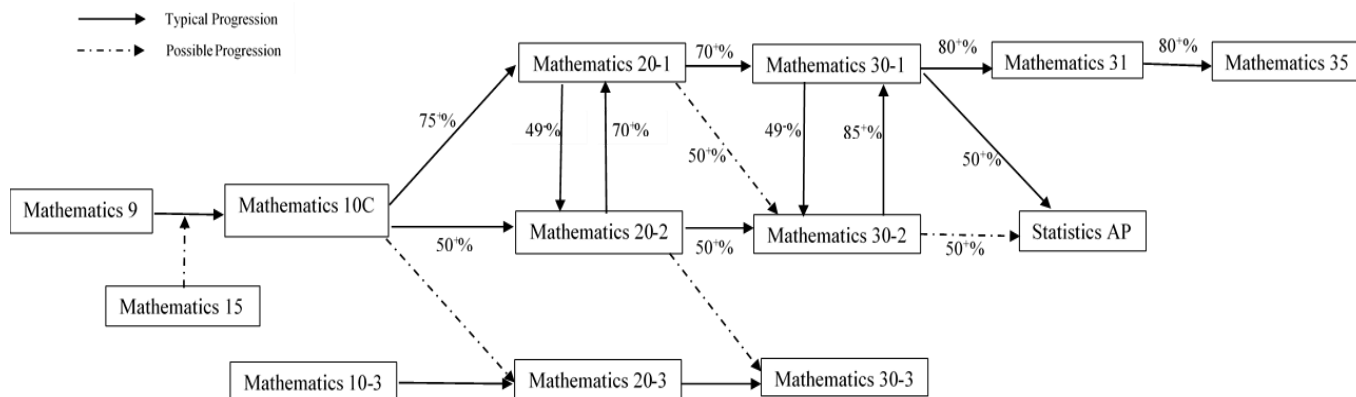
The mathematics Grades 10-12 Program of Studies includes sequences and topics rather than strands as in the Mathematics Kindergarten to Grade 9 Program of Studies. At Westmount we offer two course sequences: “-1” and “-2” A combined course (Mathematics 10C) is the starting point for “-1” and “-2” course sequences. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful to whatever course sequence they have chosen. The topics covered within a course sequence are meant to build upon previous knowledge and to progress from simple to more complex conceptual understandings.

### Goal of Course Sequences:

The goal of each course sequence is to provide prerequisite attitudes, knowledge, skills and understandings for specific post-secondary programs or direct entry into the workforce. All of the course sequences provide students with mathematical understandings and critical-thinking skills. It is the choice of topics through which those understandings and skills are developed that varies among course sequences. When choosing a course sequence, students should consider their interests, both current and future. Students, parents and educators are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year.

Diagram below shows the possible course sequence from the program of studies. The arrows show the next course that is allowed to be taken by meeting the appropriate prerequisite; as well as minimum percentages that are based on the student's foundational understanding of the curricular content and mathematical processes. Please note that teacher recommendations for the next course in sequence are based on the student's demonstration on knowledge of the curricular outcomes, work ethic, academic readiness, and post-secondary goals.

At Westmount Charter School we don't offer the “-3” course sequence. However, students who are interested in taking the “-3” sequence would be able to take it online at any other institution that offers this course sequence.



For more information about Alberta education’s Program of Studies in Mathematics visit their website:

<https://education.alberta.ca/mathematics-10-12/program-supports/everyone/program-supports/>

Course Name	Description
<p><b>*NEW*</b>  <b>Mathematics 15</b>            3 credits</p>	<p><b>Prerequisite: Mathematics 9</b></p> <p>This course is focussed on improving student mastery of mathematical skills, concepts and processes. Students will build numeracy through thinking critically, identifying and solving complex problems, and demonstrating good communication skills. Learners will engage in collaborative tasks and formative assessments designed to develop student agency and independence while acquiring mathematical knowledge. The content focus is Grades 7 through 9 math curriculum as this forms the basis for higher level math courses.</p> <p>No Mathematics 10C course material will be covered. Students are still required to take Math 10C (this is not a replacement for Math 10-C but a stepping stone from Math 9 to Math 10-C).</p>
<p><b>Mathematics 10C</b>            5 credits</p>	<p><b>Prerequisite: Mathematics 9</b></p> <p>Mathematics 10C is designed to follow directly from Grade 9 Mathematics, so students taking Mathematics 10C are presumed to have reached the acceptable standard or better in the outcomes of Grade 9 Mathematics. Mathematics 10C is a course designed for students with a strong aptitude and keen interest in mathematics with emphasis on exponents, radicals, expanding and factoring polynomials of degree 2, relations and functions, trigonometry and measurements. The course incorporates technology as a tool to enhance</p>



	<p>understanding.</p> <p>Mathematics 10C – the “C” stands for “combined” – is the starting point for both the Mathematics-1 and Mathematics-2 course sequences for grade 11 and 12.</p>
<p><b>Mathematics 20-1</b></p> <p>5 credits</p>	<p><b>Prerequisite: Mathematics 10C</b>  <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>Mathematics 20-1 is an enriched pre-calculus mathematics course designed for students with a strong aptitude and keen interest in mathematics. It 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. Mathematics 20-1 emphasizes abstract mathematical knowledge that requires strong use of mathematical processes such as problem solving, reasoning, visualization, mental math and estimations, connection, communication and use of technology. Mathematics 20-1 emphasizes on study and analyzing of functions that are required for study of calculus.</p>
<p><b>Mathematics 20-2</b></p> <p>5 credits</p>	<p><b>Prerequisite: Mathematics 10C</b>  <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>Mathematics 20-2 is designed for students who are intending to pursue post-secondary studies at university, college, or technical school in a program that does not require calculus. Math 20-2 emphasizes statistical studies, geometry and trigonometry, as well as algebraic skills with functions and relations that are required for non-calculus applications.</p>
<p><b>Mathematics 30-2</b></p> <p>5 credits</p>	<p><b>Prerequisite: Mathematics 20-2 or Mathematics 20-1</b>  <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>Mathematics 30-2 is designed for students who want to attend university, college or technical institute after high school, but do not need calculus skills. The course will provide students with both mathematical understanding and critical thinking skills. We will study a variety of functions, both graphically and algebraically. They will be introduced to counting techniques involving permutations and combinations.</p>
<p><b>Mathematics 30-1</b></p> <p>5 credits</p>	<p><b>Prerequisite: Mathematics 20-1 or Mathematics 30-2</b>  <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>Mathematics 30-1 is an enriched pre-calculus mathematics course designed for students with a strong aptitude and keen interest in mathematics. It is designed</p>

	<p>to provide students with the mathematical understandings and critical thinking skills identified for entry into post-secondary programs that require the study of calculus. Mathematics 30-1 emphasizes abstract mathematical knowledge that requires strong use of mathematical processes such as problem solving, reasoning, visualization, mental Math and estimations, connection, communication and use of technology. Mathematics 30-1 emphasizes on study and analyzing of relations and functions that are required for study of calculus as well as permutations, combinations and binomial theorem.</p>
<p><b>Math 31</b> 5 credits</p>	<p><b>Prerequisite: Mathematics 30-1</b> <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>The Mathematics 31 course is designed to introduce students to the mathematical methods of calculus. This course enables students to pursue college-level studies while still in high school. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The course acts as a link between the outcomes of the Mathematics 10–20–30 program and the requirements of the mathematics encountered in post-secondary programs. The course builds on existing skills in working with functions and expands this knowledge to include a study of limits in preparation for a study of differential and integral calculus. The methods of calculus are applied to problems encountered in the areas of science, engineering, business and other fields of endeavor.</p> <p>The focus of the course is to examine functions that describe changing situations as opposed to the more static situations encountered in previous mathematics courses. Emphasis is placed on using graphical methods to illustrate the way in which changing functions behave.</p> <p>The four sections of the required component are as follows:</p> <ul style="list-style-type: none"> <li>· precalculus and limits</li> <li>· derivatives and derivative theorems</li> <li>· applications of derivatives</li> <li>· integrals, integral theorems and integral applications.</li> </ul> <p>The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> ). Students have the option of taking only Math 31 to write the AP CalculusAB exam for university credit in May.</p>

	<p><b>Note: At Westmount, this course goes <u>beyond</u> Math 31's curriculum in terms of material covered. The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> ). However, the final grade will only reflect the Alberta Education Math 31 curriculum.</b></p>
<p><b>*NEW*</b>  <b>Math 31 (Yearlong)</b>   5 credits</p>	<p><b>Prerequisite: Mathematics 30-1</b>   <b>(refer to the above inf for Math 31)</b></p> <p>This yearlong course that will run every other day is designed to give more time and opportunity to students to grasp the outcomes of Mathematics 31 in order to be aligned with the heavy content, fast pace nature of the course. This course fits best for students who are going to take the AP Calculus-AB exam in May. As opposed to the semester-based Mathematics 31 the students will have the opportunity to be engaged in the outcomes required for AP exam right up until the AP exam in May.</p> <p><b>Note: At Westmount, this course goes <u>beyond</u> Math 31's curriculum in terms of material covered. The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> ). However, the final grade will only reflect the Alberta Education Math 31 curriculum.</b></p>
<p><b>Math 35 AP (Calculus BC)</b>   3 credits</p>	<p><b>Prerequisite: Math 31</b>  <b>(refer to the above diagram for minimum grade recommendation)</b></p> <p>Calculus AP enables students to pursue college-level studies while still in high school. Calculus BC is a course devoted to topics in differential, integral calculus and extends the content learned in Calculus AB to different types of equations and introduces the topic of sequences and series, which is not in Calculus AB. Calculus BC continues to develop the students' understanding of the concepts of calculus and provides experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> ). The course prepares students to write the BC level AP Calculus exam in May. Students who do not take this extension course can still write the AB level Calculus AP exam.</p>

	<p><b>At Westmount Math31 is a prerequisite for Math35 because the overlap contents in Math31 and Math35 won't be taught in Math35. So, students need to take Math31 to know those contents such as limit, derivative and integration prior to taking Math 35.</b></p>
<p><b>Statistics 35 AP</b> 5 credits</p>	<p><b>Prerequisite: Mathematics 30-1 or Mathematics 30-2 (refer to the above diagram for minimum grade recommendation)</b></p> <p>Students should have a strong grasp of the mathematical process and possess sufficient mathematical maturity. Curriculum for this course will provide students with a non-calculus based introduction to statistics. It follows a curriculum set by the AP College Board and is designed to follow these conceptual themes: collecting, analyzing and drawing conclusions from data. Additionally, it will help teach students to communicate statistical results and interpretations. The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a>).</p>

## Sciences

Course Name	Description
<p><b>Science 10</b> (grade 10)</p> <p>5 credits</p>	<p><b>Prerequisites: Science 9 Recommended Completion of Math 9</b></p> <p>This course is the first in the academic sequence leading to Biology 20 and 30, Chemistry 20 and 30, and Physics 20 and 30. This course emphasizes the processes by which matter and energy are exchanged in global, chemical, and biological systems, and the principles that govern energy transformation. Topics of study include: Energy and Matter in Chemical Change, Energy Flow in Technological Systems, Cycling of Matter in Living Systems, and Energy Flow in Global Systems.</p>
<p><b>Biology 20</b> (grade 10/11/12)</p> <p>5 credits</p>	<p><b>Prerequisite: Science 10</b> <i>Recommendation: If you are considering enrolling in this course in Grade 10, we strongly recommend you have achieved a 70% or higher in Science 10 and consult with your Science 10 teacher. If not it would be beneficial to plan your 20-level sciences for Grade 11.</i></p> <p>This course builds upon concepts learned in previous science courses and focuses on major themes in biology with an emphasis on the connections between the various levels of organization of life (from molecules to ecosystems). Students in this course will be exposed to a variety of laboratory techniques and biological concepts. The topics covered in biology 20 are: Chemistry of Life, The Cell:</p>

	<p>Photosynthesis and Cellular Respiration, Ecosystems and Ecology, and Human Systems.</p> <p>There is a field trip fee for this course.</p>
<p><b>Biology 30</b> (grade 11/12)</p> <p>5 credits</p>	<p><b>Prerequisite: Biology 20</b></p> <p>This course builds upon concepts learned in Biology 20 with a focus on the major themes in biology and on human systems. Students in this course will be exposed to increased depth of understanding of biological processes, laboratory procedures, and scientific writing. The students will cover topics in the nervous and endocrine systems, reproduction and development, DNA (cell cycle, genetics, biochemistry), and evolution/ecology.</p> <p>It is recommended that a desire to study biology in post-secondary is considered when choosing to enroll in this course.</p>
<p><b>Biology 30/35 AP</b> (grade 11/12)</p> <p>8 credits total: 5 <i>Biology 30</i> 3 <i>Biology 35AP</i></p>	<p><b>Prerequisite: Biology 20</b> <b>Recommend 85% in Biology 20</b></p> <p><b>Recommendations: It is strongly recommended that to be successful in Biology AP you should have earned a minimum of 85% in Biology 20 and you have completed the Chemistry 20 course. <i>If you do not meet the requirements set out in the recommendation, please book a meeting with admin or the appropriate teacher.</i></b></p> <p>The students will cover topics in biochemistry, cells, evolution, classification, DNA, ecology, energy dynamics/metabolism, and plant and animal physiology.</p> <p>This course is dedicated to those truly interested in biological processes beyond the scope of the Alberta curriculum. Students are exposed to a variety of laboratory techniques and design, and are provided the opportunity to learn about a vast array of processes and functions in the biological world beyond our own species.</p> <p>The course runs all year and consists of a daily session in term 1 and an alternate day session in term 2. It is a challenging course with homework assigned outside of class - students should expect at least 1 hour of homework on a daily basis. The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> ).</p> <p>Students will be completing both the AP and the Alberta Biology 30 program within this course; it is designed as a full year course – entrance into the AP section of the course is not an option for students who have completed the Biology 30 program.</p>
<p><b>Chemistry 20</b></p> <p>5 credits</p>	<p><b>Prerequisite: Science 10</b></p> <p><i>Recommendation: If you are considering enrolling in this course in Grade 10, we strongly recommend you have achieved a 70% or higher in Science 10 and consult with your Science 10 teacher. If not it would be beneficial to plan your 20</i></p>

	<p><i>level sciences for Grade 11</i></p> <p>This course builds upon applicable units from Science 10. Units of study include: matter that forms solutions, stoichiometry, chemical bonding, and gas laws. Chemistry 20 is tied to Chemistry 30 by emphasizing key science themes such as energy, matter, change, systems, diversity and equilibrium.</p>
<p><b>Chemistry 30</b></p> <p>5 credits</p>	<p><b>Prerequisite: Chemistry 20</b> <b>Recommended completion of Mathematics 10C</b></p> <p>This course furthers student knowledge from Chemistry 20. The themes of change, energy and systems are central in Chemistry 30, as well as equilibrium and matter. Students explore how changes to one part results in changes to other parts of the system. Units of study include thermochemical changes, electrochemical changes, chemical changes of organic compounds, and equilibrium within acid-base systems.</p>
<p><b>Chemistry 30/35 AP</b></p> <p>8 credits total: 5 Chemistry 30 3 Chemistry 35 AP</p>	<p><b>Prerequisite: Chemistry 20</b> <b>Recommend 85% in Chemistry 20</b></p> <p><b>Recommended grade to enroll for Chemistry AP would be over 85% in Chemistry 20. <i>If you do not meet the requirements set out in the recommendation, please book a meeting with admin or the appropriate teacher.</i></b></p> <p>Chemistry 30AP/35AP is an enriched version of the Chemistry 20 and Chemistry 30 Alberta curriculum. The topics that will be covered include Thermodynamics, Equilibrium, Electrochemistry, Reaction Kinetics, Bonding and Intermolecular Forces.</p> <p>The course runs all year and consists of a daily session in term 1 and an alternate day session in term 2. It is a challenging course with homework assigned outside of class.</p> <p>Students will be completing both the AP and the Alberta Chemistry 30 program within this course; it is designed as a full year course – entrance into the AP section of the course is not an option for students who have completed the Chemistry 30 program.</p>
<p><b>Physics 20</b></p> <p>5 credits</p>	<p><b>Prerequisite: Science 10</b> <b>Recommend currently enrolled or previous credit in Math 10</b></p> <p><b>Recommendation: Mathematics 10C. Students need a strong foundation in mathematics, including trigonometry and multi-variable algebra. Students who have 65% or less will find this course very challenging.</b></p> <p>This course is the first in the Physics 20-30 academic sequence and builds upon</p>

	<p>applicable units from Science 10. Units of study include: kinematics and dynamics, circular motion and gravitation, work and energy, oscillatory motion and mechanical waves. In studying the science of motion, students will explore kinetic energy, gravitational potential energy, and heat energy. Physics 20 utilizes both graphical and algebraic techniques throughout the investigation of these topics. A key component of the course is inquiry based lab work. Enrichment topics include momentum, torque and rotational motion.</p> <p><b><i>Completion of this course in Term 1 will provide students the content knowledge to be able to complete the Physics 1 AP exam in May. Teacher recommendation for exam enrollment is strongly recommended.</i></b></p>
<p><b>Physics 30</b></p> <p>5 credits</p>	<p><b>Prerequisite: Physics 20</b></p> <p>This course furthers student knowledge from Physics 20. The themes of diversity of energy and matter are predominant in this course. Units of study include momentum and impulse, forces and fields, electromagnetic radiation and modern physics, and the nature of matter with a brief introduction to quantum mechanics.</p> <p>This class is highly conceptual when compared to Physics 20, success will be determined on being more familiar with the ideas and concepts, than a reliance on algebraic ability and mathematical formulae.</p>
<p><b>Physics 35 AP</b>  <b>*TERM 2 ONLY*</b>          (grade 11/12)</p> <p>3 credits (but runs every day like a 5 credit course)</p>	<p><b>Prerequisite: Physics 30</b>  <b>Recommended: Chemistry 20</b></p> <p><b>Recommendations: It is strongly recommended that to be successful in Physics AP you should have earned a minimum of 80% in Physics 20 and Chemistry 20. If you do not meet the requirements set out in the recommendation, please book a meeting with admin or the appropriate teacher.</b></p> <p>Outcomes for this course are based on the curriculum as set out in the Fall 2017 College Board Physics 1 and 2 algebra-based course and exam descriptions. Upon completion of this Advanced Physics 35, students will have the equivalent experience to a 6 hour college-level, non-calculus physics course. A number of advanced topics will be covered, including rotational kinematics and dynamics, fluids, thermodynamics, and circuits, beyond the Physics 20 and 30 curricula. The course emphasizes understanding physical science literacy and applying physics concepts to think critically and solve problems. Algebra and trigonometry are the primary mathematical tools for problem solving.</p> <p><b><i>By completing this course, students will have the foundational knowledge necessary to write the AP Physics 1 and AP Physics 2 exams in May. Notably, these exams can not be used for assessment of this course. For more info on AP exams go to <a href="http://apcentral.collegeboard.com">http://apcentral.collegeboard.com</a> .</i></b></p>

## Physical Education, Health and CALM

Course Name	Description
<p><b>Physical Education 10 Flex</b> (Grade 10)</p> <p>3-5 credits (happens every day in a term, even if you only want 3 credits)</p>	<p><b>Prerequisite: PE 9</b></p> <p>The PE Flex program is an opportunity for Grade 10, 11 &amp; 12 students to have a choice of activities to acquire their physical education credits. For this program, students will choose from the activities scheduled with a minimum number of activities required to earn their credits. Activities outside of school may be able to be used towards their PE credits in this Flex program. This gives students the opportunity to acquire 3, 4 or 5 credits for PE 10.</p> <p>Students in PE 10 Flex will have a spare when they are not signed up for a PE module.</p> <p>All field trips are pay as you go and require completed consent forms to ensure a spot on the trips.</p>
<p><b>Physical Education 20 &amp; 30 Flex</b></p> <p>3-5 credits</p>	<p><b>Prerequisite: PE 10</b></p> <p>The PE Flex program is an opportunity for grade 10, 11 &amp; 12 students to have a choice of activities to acquire their physical education credits. For this program, students will choose from the activities scheduled with a minimum number of activities required to earn their credits. Activities outside of school may be able to be used towards their PE credits in this Flex program. This gives students the opportunity to acquire 3, 4 or 5 credits for 10, 20 or 30 level PE.</p> <p>Students in PE 20 or 30 Flex will have a spare when they are not signed up for a PE module.</p> <p>All field trips are pay as you go and require completed consent forms to ensure a spot on the trips.</p>
<p><b>CALM 20 (Career &amp; Life Management)</b> (grade 10/11/12)</p> <p>3 credits</p>	<p><b>Prerequisite: None</b></p> <p><i>*At Westmount, CALM is completed in SOURCE over 2 years (Grade 10 &amp; 11). It will not show in your timetable.</i></p> <p>CALM is a senior high school component of the Comprehensive School Health Education Program in Alberta. The aim of CALM is to enable students to make well-informed, considered decisions and choices in all aspects of their lives and to develop behaviours and attitudes that contribute to the well-being and respect of self and others, now and in the future. CALM is the core course for</p>



	health literacy. It emphasizes knowledge, attitudes, behaviours, competencies and values, and provides students with opportunities to enhance their capacities in problem solving, critical thinking and reflection.
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## Second Languages

Course Name	Description
<b>French 10 9 - Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: French 9 (9-year)</b>  French 10 (9Y) allows students to engage in interactive conversations daily. Past tenses are introduced, as well as more complex sentence structures. Curriculum includes study of activities, shopping, vacation and fine arts. Activities in class include vocabulary games, grammar study, weekly reading activities, interactive projects and exposure to francophone cultures all over the world. Students will participate in local French experiences as well.
<b>French 20 - 9 Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: French 10 (9-year)</b>  In French 20 (9Y), students engage in various language activities with a focus on emotions, feelings, relationships, fashion and consumerism. By the end of FR 20, students should be able to express themselves more spontaneously both in written and oral form. Activities in class include interactive speaking activities, written projects, oral presentations, and weekly reading. Students also focus on complex sentence structures and using tenses to express themselves in the past, present and future. Students will participate in local French experiences as well.
<b>French 30 - 9 Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: French 20 (9-year)</b>  French 30 (9Y) is the last course offered in the French 9-year program. Curriculum includes study of the workplace, tourism, the role of the media and the environment. By the end of FR 30, students should have more confidence interacting with others about various topics in written and oral form. Activities in class include interactive speaking activities, written projects, oral presentations, and weekly reading.. Students have the opportunity to use grammatical concepts and vocabulary they have learnt in previous years and practice their learning in a safe and fun environment. Students will participate in local French experiences as well.
<b>Spanish 10 - 3 Year</b> (grade 10)  5 credits	<b>Prerequisite: none</b>  This course is geared towards students in 10 who have never been exposed to Spanish. Students will learn the grammatical fundamentals in the present tense using a wide range of vocabulary.

	There is a field trip fee for this course.
<b>Spanish 20 - 3 Year</b> (grade 11)  5 credits	<b>Prerequisite: Spanish 10 (3 year)</b>  This course offers a continuation of Spanish 10 (3Y), and offers students an opportunity to continue their language learning journey. Students will work to use Spanish effectively and competently in a variety of situations for a variety of purposes, with a goal of developing global citizens through the exploration of the cultures of the Spanish speaking world. This class may run with the Spanish 20 6 Year class. There is a field trip fee for this course.
<b>Spanish 30 - 3 Year</b> (grade 12)  5 credits	<b>Prerequisite: Spanish 20 (3 year)</b>  This course is a continuation of Spanish 20 (3Y), and offers students an opportunity to continue their language learning journey. There is an emphasis in strengthening the communicative skills gained in previous years in reading, writing, speaking and listening using the richness of the Spanish culture to explore and expand the learning acquisition of this beautiful language. This class may run with the Spanish 30 6 Year class.
<b>Spanish 10 - 6 Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: Spanish 9 (6-year)</b>  This course is part of the Spanish 6-year program. It is academically oriented with independent and group work encouraged and expected. Students will be challenged to develop their critical thinking skills and demonstrate their understanding through written and oral work. There is a field trip fee for this course.
<b>Spanish 20 - 6 Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: Spanish 10 (6-year)</b>  This course is part of the Spanish 6-year program. Students will explore the Spanish language and culture in different environments and through different mediums. They will manipulate the Spanish language, allowing them to communicate in a practical and effective manner. There is a field trip fee for this course.
<b>Spanish 30 - 6 Year</b> (grade 10/11/12)  5 credits	<b>Prerequisite: Spanish 20 (6-year)</b>  This is the final course in the Spanish 30 6-year program. This course is designed to consolidate and increase intermediate and advanced skills in comprehension, speaking, reading, and writing. Students will be able to participate in conversation on a range of topics. They will also develop the ability to orally narrate and describe past and future events with a series of interrelated sentences. Creative and analytical writing will be improved by expanding vocabulary and increasing the use of grammatical structures. There is a field trip fee for this course.

## Fine and Performing Arts

Course Name	Description
<p><b>Art 10</b></p> <p>5 credits</p>	<p><b>Prerequisite: None</b></p> <p>This is an introductory course that will allow high school students to develop their skills and explore their creativity through a variety of techniques. Students will enhance their foundational skills, including perspective, colour theory, and working with a grid.</p> <p>There is a fee for this course.</p>
<p><b>Art 20</b></p> <p>5 credits</p>	<p><b>Prerequisite: Art 10</b></p> <p>This course will help students continue to develop and refine the artistic foundation developed in Art 10. Students will continue to use a variety of materials and explore ideas and creativity through in-depth studies and critical analysis that will assist them in creating, evaluating, and interpreting art.</p> <p>There is a fee for this course.</p>
<p><b>Art 30</b></p> <p>5 credits</p>	<p><b>Prerequisite: Art 20</b></p> <p>This is an advanced studio course where students are encouraged to hone their technical skills and demonstrate an advanced understanding of materials and techniques. Students will work towards developing individual styles and exploring themes and concepts in their work. Students will also work towards developing a portfolio that could be used for applications to post-secondary institutions.</p> <p>There is a fee for this course.</p>
<p><b>Studio Art 35 AP</b></p> <p>5 credits</p>	<p><b>Prerequisite: Art 30</b></p> <p><b>It is recommended that to be successful in this course you should have earned a minimum of 90% in Art 30</b></p> <p>Advanced Placement Studio Art is for students who are serious and focused on developing confidence, their artistic ability and a strong portfolio. This course is designed to allow art students the opportunity to work in a studio setting and push themselves both technically and conceptually. The course requirements have been established by the College Board and students who enroll in the course will be expected to submit a portfolio of their work for review. This portfolio includes numerous individual works that are evaluated by a jury of artists and art instructors. This course requires an advanced level of ability, strong intrinsic motivation, a mature approach to visual arts and the willingness to put in a great amount of effort. It is challenging and can be exceptionally rewarding.</p> <p>There is a fee for this course.</p>

<p><b>Ceramics 15</b></p> <p>5 Credits</p>	<p><b>Prerequisite: None, some art experience is recommended</b></p> <p>This course will provide students more opportunity to create with clay. Students will focus on techniques for handbuilding and will learn more about glazing and decorating their work. They will have time to try the pottery wheel and experiment with making small bowls.</p> <p>It is recommended that students take this course in grade 11 or 12.</p> <p>There is a fee for this course.</p>
<p><b>Ceramics 25</b></p> <p>5 Credits</p>	<p><b>Prerequisite: Ceramics 15</b></p> <p>In Ceramics 25 students will build on techniques learned in Ceramics 15 and use a combination of building methods to create complex vessels and structures. Students will also have time to develop their skills on the pottery wheels and work towards more even and balanced shapes. Students will be expected to help in the studio with loading and unloading the kiln and mentoring newer students.</p> <p>There is a fee for this course.</p>
<p><b>Advanced Acting 15/25/35</b> (grade 10/11/12)</p> <p>5 credits</p>	<p><b>Prerequisite:</b>  <b>Advanced Acting 15: None.</b>  <b>Advanced Acting 25: Advanced Acting 15</b>  <b>Advanced Acting 35: Advanced Acting 25</b></p> <p>This class makes up the cast for the highly anticipated yearly mainstage production. Advanced Acting students will analyze scripts to understand the style and world of the play. Uncovering clues about character relationships, objectives, and obstacles, they will use this information to inform choices on how to play their assigned character/s. Understanding characters from the inside out is key as they begin to embody physical mannerisms, movement and the voice. They will build their capacity for focus, accessing, maintaining and sustaining breath and the physical endurance required for performing at this level.</p> <p>Advanced Acting outcomes differ from those in Drama 10, 20 and 30, as the demands of this course are greater and outcomes weigh equally on process and product. Successful students are passionate about performance, committed to work in class, reviewing for homework and MUST ensure they are available for scheduled rehearsals and performances. A mandatory weekend rehearsal closer to performance dates will be required. Historically, we perform the second week of December and we rehearse after school on the Friday from 2-5 and the Saturday before we open from 10-5.</p> <p>Previous performance experience is not necessary, and does not guarantee a student a starring role. The director prepares several months in advance and has many factors to consider when casting. Depending on cast size, script and interest, ensemble, understudies and larger roles may be offered to level 15 and 25 students. Larger roles and greater responsibility is expected of students as they advance through the program. We welcome all students who are open to</p>

	<p>learning through the process with a burning desire to be part of an amazing ensemble and shine on stage, to join the family! Historically, the show opens in December, the weeks prior to winter break. Auditions may be required for casting. All genres of plays may be considered.</p> <p>Please note there is a fee for this course</p>
<p><b>Drama 10</b> (grade 10/11/12)</p> <p>5 credits</p>	<p><b>Prerequisite: None</b></p> <p>Drama 10 is a diverse fun and physical class of self-discovery and creative exploration. It is a unique opportunity for a small cohort of like-minded individuals to advance through the Drama 20/30 stream, as they work towards completion of a 30 level option as entrance requirements for many University programs. Drama 10 students develop heightened levels of focus, personal awareness and begin to understand the complexities of various roles and relationships outside their current scope of understanding. Students build upon their dramatic and interpersonal skills in preparation for the acting roles, they will assume next year in Drama 20/30. Areas of study may include; Improvisation, enriched self-directed scene study, introduction to technical theatre, physical theatre techniques through mask, and dabbling in some Shakespeare while learning the technique of armed and unarmed stage combat. Success in this program requires regular attendance and a willingness to play, so come and play with us! You'll be happy that you did! Please note there is a fee for this course.</p>
<p><b>Drama 20</b> (grade 11/12)</p> <p>5 credits</p>	<p><b>Prerequisite: Drama 10</b></p> <p>Drama 20 combines with Drama 30 placing a high regard on ensemble work, leadership and theatre professionalism through inspired learning modules. These may include an exploration into acting/theatre styles, script analysis and breakdown, character development through voice, movement, and blocking, performance and playwriting. They will be required to select and prepare a contemporary monologue that will be used as an audition piece for casting. Drama 20 students will be the actors in Drama 30 directed one-act plays, presented at the highly anticipated annual Exeunt Festival traditionally held at WCS in April. Regular attendance, innovation, communication, risk taking, focus, initiative, time management and teamwork are essential components for student success in Drama 20. An opportunity to attend and participate in the Calgary High School Drama Festival is dependent on student interest. Extra evening and weekend hours may be required to prepare for the festival performances in the spring.</p> <p>Please note there is a fee for this course.</p>
<p><b>Drama 30</b></p>	<p><b>Prerequisite: Drama 20</b></p>

<p>(grade 12)</p> <p>5 credits</p>	<p>Drama 30 provides students an opportunity to assimilate previous knowledge and creativity, streamline organization, scheduling and build on their communication and leadership while preparing to direct Drama 20 students in the highly anticipated annual Exeunt Festival taking place at WCS in April. Students will select, plan, organize, design cast and direct their classmates towards a public performance. Leadership, creativity, innovative problem solving, communication, commitment, enthusiasm and regular attendance are essential components for student success in Drama 30. An opportunity to attend and participate in the Calgary High School Drama Festival is dependent on student interest. Extra evening and weekend hours may be required to prepare for the festival performances in the spring. In addition, students will prepare a “professional” audition: one Shakespeare and one contemporary monologue for adjudication by a theatre professional towards the end of the term.</p>
<p><b>Technical Theatre 15/25/35</b> (Grade 10/11/12)</p> <p>5 credit</p>	<p><b>Prerequisite:</b> <b>Tech Theatre 15: None</b> <b>Tech Theatre 25: Tech Theatre 15</b> <b>Tech Theatre 35: Tech Theatre 25</b></p> <p>Do you love playing with light and sound equipment? Applying theatrical make-up? Building things with wood and tools? Helping support a theatrical performance without ever having to be on stage? Tech Theatre may be right up your alley!</p> <p>This course is a practical application of technical theatre disciplines which include: costume, hair and make-up, props, set, scenic painting, sound, lighting and projection design. Tech theatre students will help to design and will be the technical crew for the Advanced Acting mainstage production. While any one component may be a focus, students in Technical Theatre 15/25/35 are expected to develop a good general working knowledge of all the components. Students are expected to be involved in the school production to further apply their knowledge and enhance their understanding. A mandatory technical rehearsal (cue to cue ) and dress rehearsal will happen on the Friday after school and Saturday(9-5) before opening night. Historically, the performance is showcased in the second week of December, or the week before winter break.</p> <p>This is a great course for students who want to be part of a magical creative process, but prefer to stay behind the scenes. We couldn’t produce the quality of shows we do, without the skills, talents and abilities of our technical theatre team! Please note there is a fee for this course.</p>
<p><b>Instrumental Music 10/20/30</b> <b>(Band &amp; Strings)</b> (grade 10/11/12)</p>	<p><b>Prerequisite: Instrumental Music Grade 9 or by Audition</b></p> <p><b>Instrumental Music 10</b> develops the young musician’s ear, theory skills, and understanding of music history through a focus on performance. Students</p>

<p>5 credits each</p> <p>Full Year Course</p> <p><b>J Block: After school-rehearsals days and times TBD.</b></p>	<p>participate in a large ensemble, small group and/or private instruction with performance tours and recording sessions.</p> <p><b>Instrumental Music 20</b> develops the intermediate musician’s ear, theory skills, and focuses on higher level of performance. Students participate in large ensemble, small group and/or private instruction with performance tours and recording sessions.</p> <p><b>Instrumental Music 30</b> – Continues to develop theory, technical, aural and performance based skills and musicianship. Students participate in large ensemble, small group and/or private instruction with performance tours and recording sessions.</p> <p><b>Classes will be held after school twice a week. Days TBD.</b></p> <p>Please note there is a fee for this course.</p>
<p><b>Instrumental Jazz 15/25/35</b> (grade 10/11/12)</p> <p>5 credits each</p> <p>Full Year Course</p> <p><b>J Block: After school-rehearsals days and times TBD.</b></p>	<p><b>Required Prerequisite: Audition (to take place in June)</b> <b>Required Co-requisite: Instrumental Music 10</b></p> <p>Instrumental Jazz 15/25/35 focuses on teaching and reinforcing basic jazz techniques and styles of the jazz idiom including blues, swing, Latin, bebop and funk genres. Students will further develop their skills through extensive jazz theory, improvisation, sight reading and history. Students will also learn the skills they need to be independent musicians in the real world by learning and using the lexicon of jazz and popular music to communicate with one another. <b>These courses will be scheduled on one afternoon and one lunch TBD.</b></p> <p>Please note there is a fee for this course.</p>

## Career and Technology Studies (CTS)

Course Name	Description
<p><b>Communication Technology 1 (Com Tech I)</b> (grade 10/11/12)</p>	<p><b>Prerequisite: None</b></p> <p>This is an introductory course that offers students the opportunity to explore digital photography/imaging, graphic design, an introduction to the Adobe suite, Photoshop and bitmap manipulation, digital colouring, and typography.</p>

<p>3 to 5 credits (CTS)</p>	<p>Students entering the course will explore media through an introductory module, Graphic Tools wherein they are provided with a hands-on introduction to the various segments of communication studies. Students will acquire a basic understanding of digital media and become competent with several industry standard software applications. These skills will allow students the opportunity to create work that incorporates a variety of approaches to digital media (digital painting, design, and photography in particular). Students will explore digital photography, photographic composition, and a series of tools and techniques to enhance their photography. The course also includes creative projects that incorporate digital collage, photographic caricatures and retouching, multimedia design, art with typography, and logo design. Please note there is a fee for this course.</p>
<p><b>Communication Technology 2 (Com Tech II)</b> (grade 11/12)</p> <p>3 to 5 credits (CTS)</p>	<p><b>Prerequisite: Communication Technology 1</b></p> <p>In this intermediate course, students take control of the curriculum directly. The semester begins with an introductory animation module; wherein students are introduced to basic principles of animation, storyboarding and complete a project in the style of their choice. After the initial module students pick and choose modules based on their interests.</p> <p>These modules include but are not limited to:</p> <p>Audio/Video Intro: introduction to basic camera techniques, shots, and post production (non linear)</p> <p>A/V Pre Production: scriptwriting and storyboard basics</p> <p>A/V Production/Post Production: intermediate camera work, film development and non linear video editing (including sound engineering, titling, basic editing and introductory special effects - based on interest)</p> <p>Animation II: a more complex and involved approach to animation</p> <p>Audio Technique: explored sound engineering and editing.</p> <p>Photography Exposure: pushing past basics and exploring manual photography</p> <p>Photography Darkroom Techniques: focusing on the difference between in camera/darkroom special effects</p> <p>Photography Lenses: refining understanding of the potential of a variety of specialty lenses and accessories (macro, wide, fisheye, sports, zoom, telephoto, art based, filters, macro flash, etc)</p> <p>Incubator: an annual photography exhibition with Flash Forward magazine and professional photographers in Toronto. Students work with teams of pro's and other students in the Eastern US &amp; Canada on a collaborative exhibition (displaying in a professional local gallery, online in a published book).</p> <p>Other photography modules include: HDR Imaging, Photojournalism, Macro focus, and several others (student created project modules)</p> <p>Students also have the ability to develop modules based on personal interest in conjunction with their instructor; exploring areas that are not currently part of the Alberta Learning Curriculum but extensions of previous learning.</p>



	<p>Students will focus on the knowledge, skills and attitudes that would apply in many sectors of the communications industry. Students will pursue areas of interest and passion in Communication Technologies with a focus on technical understanding and artistic application of skill. As this is a computer based lab, the vast majority of work will be digital. Please note there is a fee for this course.</p>
<p><b>Communication Technology 3 (Com Tech III)</b> (grade 11/12)</p> <p>3 to 5 credits (CTS)</p>	<p><b>Prerequisite: Communication Technology 2</b></p> <p>In this advanced course, students take control of the curriculum directly for the duration of the semester. Students will continue to pick and choose modules based on personal interests, passions and/goals.</p> <p>These modules include further exploration of photography (studio lighting, studio portraits, still life photography, outdoor photography, and black and white techniques). Animation can be explored even further in Animation III; wherein students look at creating atmosphere within a narrative and how to shift mood effectively. Audio/Video or filmmaking can also be explored further as students build on writing, production and post production skills and techniques developed in Comtech II. Students also continue to have the ability to develop modules based on personal interest in conjunction with their instructor; exploring areas that are not currently part of the Alberta Learning Curriculum but extensions of previous learning.</p> <p>Students will focus on the knowledge, skills and attitudes that would apply in many sectors of the communications industry. Students will pursue areas of interest and passion in Communication Technologies with a focus on technical understanding and artistic application of skill. As this is a computer based lab, the vast majority of work will be digital. Please note there is a fee for this course.</p>
<p><b>Computer Programming 15/25</b> (grade 10/11/12)</p> <p>3 to 5 credits (CTS)</p>	<p><b>Prerequisite:</b> <b>Computer Programming 1: None</b> <b>Computer Programming 2: Computer Programming 1</b></p> <p>This course is open to any student who is interested in acquiring credits for Career and Technology Studies focusing within the occupational area of Computing Science (CSE). Students are required to select three modules of interest for this inquiry-driven course and have personal devices on which they can code. For more on available course content visit <a href="https://education.alberta.ca/media/159478/cse_sum.pdf">https://education.alberta.ca/media/159478/cse_sum.pdf</a></p>
<p><b>Bioethics 35</b> (grade 11/12)</p> <p>3 Credits (CTS)</p>	<p><b>Prerequisite: None</b></p> <p>Bioethics is a case-based course designed to introduce students to the fundamental moral dilemmas surrounding medicine, health, and emerging technology. Successful completion of this course will earn credit in three CTS</p>

	<p>modules: Advances in Medical Technology, Biotechnology, and Controversy and Change. Coursework will require discussion and critical analysis of controversial legal and ethical issues, persuasive reasoning, and scientific writing. This course should be of interest to students enrolled in any AP science course, those considering a career path in medicine, research, or biomedical engineering, and anyone interested in the complexity of philosophy and ethics.</p>
<p><b>Board Game Design Process</b> (grade 10/11/12)</p> <p>3 credits (CTS)</p>	<p><b>Prerequisite: None</b></p> <p>Focus is on understanding board game design, the mechanics, reviewing and taking apart why they work (or don't) and their appeal. We will look and explore board games in terms of both their mechanics and themes. Which is more important to design and why? The next step is to think about developing an original board game based on the mechanics that the student enjoyed the most (individually or small group) and then building a prototype that would allow playtesting. Students can then go back and rework their design based on feedback from play testers. The next step would be the wrapping of a theme around the mechanic and developing the aesthetic elements - artwork and components.</p> <p>Time dependent - students may work in either traditional media or need to learn some 3d design skills in order to create some of the components (if they are to be 3D printed). We have several 3D printers in the lab and we would love to utilize them in this course. Students have the option of working with more traditional materials when designing their game as well.</p>
<p><b>Innovations 15/25/35</b> (grade 10/11/12)</p> <p>3-5 credits (CTS) per level</p>	<p><b>Prerequisite:</b> <b>Innovations 15: None</b> <b>Innovations 25: Innovation 15</b> <b>Innovations 35: Innovations 25</b></p> <p>Students will work out of the Innovations Lab to earn up to 3 credits in Career and Technology Studies. Students should take this if they have a project idea in mind that requires time, tools and support. They will learn how to select a CTS module that best suits their interests and then build a plan for learning and evaluation in order to earn the credit as their project moves forward. There are no prerequisites for this course, but familiarity with the Innovations Process is strongly encouraged. If their interests best align with an option that is already offered (Comtech, Outdoor Ed, Forensic Science, et cetera) students will be asked to enroll directly in those programs. Please note there is a fee for this course.</p>
<p><b>*NEW* Introduction to Entrepreneurship 15</b></p>	<p><b>Prerequisite: None</b></p> <p>In "Introduction to Entrepreneurship," students will learn the fundamentals of starting and running a business. This dynamic course delves into key aspects, including idea generation, business planning, marketing strategies, and financial</p>

<p>(grade 10/11/12)</p> <p>3 credits</p>	<p>management. Through engaging discussions and practical exercises, students will gain invaluable insights into the entrepreneurial mindset and the essential skills needed to transform innovative ideas into thriving ventures. Whether aspiring to launch their own businesses or simply understanding the world of entrepreneurship, this course provides a solid foundation for navigating the challenges and opportunities of business.</p> <ul style="list-style-type: none"> <li>● ENT 1010 Challenge &amp; opportunity</li> <li>● ENT 1020 Elements of a venture plan</li> <li>● ENT 1910 ENT Project A</li> </ul>
<p><b>Medical Science 15</b> (grade 10/11/12)</p> <p>3 or 4 Credits (CTS) (1 credit overlap with Sports Medicine)</p>	<p><b>Prerequisite: None</b></p> <p>The Medical Sciences course will include a number of courses including a Red Cross Certification for First Aid and CPR C. In this course students will be developing their Health Sciences Foundations through examining the Canadian Health System, the dimensions of wellness and strategies of optimizing personal health choices. Next students will learn all about the composition of the human body and the impacts of nutrition on the overall wellness of the body. After the first aid component, where students will learn ways to prevent, recognize first aid situations, and conduct first aid in emergency situations, students will finish the course learning about mental health and wellness. This part of the course will focus on the impact of stress, pathology and treatment of mental health conditions, and connect with community support.</p> <ul style="list-style-type: none"> <li>● HSS 1010 - Health Sciences Foundations</li> <li>● HSS 1020 - Nutrition and Wellness</li> <li>● HC 2020 - First Aid with CPR and AED</li> <li>● HSS 3020 - Mental Health and Wellness</li> </ul>
<p><b>Outdoor Education 15 &amp; 25</b> (grade 10/11/12)</p> <p>3 credits each (CTS)</p>	<p><b>Prerequisite:</b> <b>Outdoor Education 15: None</b> <b>Outdoor Education 25: Outdoor Education 15</b></p> <p>Outdoor Education 15 &amp; 25 are designed to introduce students to a wide variety of human powered outdoor recreational activities on land, water and snow that our geographical location has to offer. Term 1 students will have full day stand-up paddleboarding, biking/canoeing and cross-country skiing field trips as well as a multitude of in class activities like bouldering, biking, practicing backcountry cooking to name a few and the course will culminate with a 3-day ski touring trip in to Elk Lakes Alpine Club hut from Peter Loughheed. Term 2 students will experience similar in-class activities, a full day of cross-country skiing, biking/canoeing on the Bow River in town and from below the Ghost dam to Cochrane and culminate with a 3-day canoeing trip in Kananaskis Country or down the Bow River. As this is an experiential class based around developing the skills necessary to safely and responsibly travel in the backcountry these field trips are expectations of the course. Students in Outdoor Education 15 &amp; 25 will be given 3 credits at the 15 level and the next time they take the course they will</p>

	<p>receive another 3 at the 25 level. Since the course is always a mix of 15 and 25 level students it is necessary that students take the 25 level in the opposite term as they took the 15 level so as not to repeat experiences. Please note there is a fee for this course.</p> <p>OE 15 CTS Credits:</p> <ul style="list-style-type: none"> <li>● WLD 1100: Outdoor Cooking Theory</li> <li>● WLD 1130: Outdoor Survival Skills</li> <li>● WLD 1060: Wilderness Navigation</li> </ul> <p>OE 25 CTS Credits:</p> <ul style="list-style-type: none"> <li>● WLD 2100 Outdoor Cooking Practice</li> <li>● ENS 1040 Living with the environment</li> <li>● HSS 1080 Leadership Fundamentals</li> </ul>
<p><b>Outdoor Education 35</b> (grade 11/12)</p> <p>3 credits (CTS)</p>	<p><b>Prerequisite: Outdoor Education 15 &amp; 25, Standard First Aid Course</b></p> <p>Students who have successfully completed both Outdoor Ed 15 &amp; 25 and have taken a Standard First Aid course, on the recommendation of the teacher, have the opportunity to receive credit for attending field trips and camps with younger grades as a student leader. They are expected to have the skill-set and leadership ability to guide younger students with equipment, cooking, activities, group dynamics etc. They have the option to apply to the trips of their choosing. This is not a scheduled class.</p> <p>OE 35 Credits:</p> <ul style="list-style-type: none"> <li>● HCS 2020: First Aid/CPR with AED (to be completed outside school or in Medical Science 15)</li> <li>● REC 2060: Leadership In Recreation &amp; Sport</li> </ul>
<p><b>*NEW* Public Relations, Marketing &amp; Communications: Shaping Stories, Building Connections 15</b></p> <p>(grade 10/11/12)</p> <p>3 credits (CTS)</p>	<p><b>Prerequisite: None</b></p> <p>In the "Public Relations &amp; Communications" course, students will learn about the dynamic world of strategic communication. This course is designed to equip students with the fundamental skills required to effectively convey messages, build strong relationships, and shape public perceptions. Through engaging lessons, students will delve into the art of crafting compelling narratives, mastering media relations, and utilizing digital platforms for effective communication. Practical exercises and real-world case studies will empower students to develop their written and verbal communication skills, understand the impact of social media, and navigate the essentials of crisis management. Whether students dream of a career in public relations, journalism, or simply wish to enhance their communication prowess, this course offers a valuable foundation for expressing ideas with impact and creating meaningful connections</p>

	<p>in today's global landscape.</p> <ul style="list-style-type: none"> <li>● MAM1010 Marketing &amp; Management</li> <li>● MAM1030 Communication Strategies 1</li> <li>● MAM1910 MAM Project A</li> </ul>
<p><b>Sports Medicine 15</b> (grade 10/11/12)</p> <p>3 or 4 credits (CTS) (1 credit overlap with Medical Science)</p>	<p><b>Prerequisite: None</b></p> <p>This Sport Medicine course will be taught in 4 Modules as presented by Alberta Education (2011). This course is designed to help students understand and utilize the scientific method of learning while examining concepts related Anatomy, Risk Management &amp; Sports Medicine for Injury. For each module, special assignments related to sport medicine and exercise physiology will be performed. You will receive credits for the following courses:</p> <ul style="list-style-type: none"> <li>● HSS1010 - Health Services Foundations</li> <li>● HS1050 - Musculoskeletal System</li> <li>● REC1020 - Injury Management 1</li> <li>● REC1030 - Technical Foundations for Injury</li> </ul> <p>Please note there is a fee for this course.</p>
<p><b>HEROES</b> (grade 12)</p> <p>3 credits (CTS)</p> <p>Course is scheduled during SDS time once weekly throughout the full school year.</p>	<p><b>Prerequisite: None</b></p> <p>A course for grade 12 students to explore their own talents and interpersonal skills and then use those skills to help the community around them. Students will undergo a personal ability inventory in order to get a sense of where their skills lie beyond core curriculum. They will then address a part of their community in order to help build and support that group as a community leader. Students will conduct a community needs assessment and develop a program in order to meet a need within that community. The program will culminate with the students completing their projects and then evaluating/celebrating their contribution. This is a 3 credit CTS course.</p> <ul style="list-style-type: none"> <li>● HSS 2030: Perspectives on Interpersonal Relationships</li> <li>● CCS 1080: Community Volunteerism 1</li> <li>● HSS 1080: Leadership Fundamentals 1</li> </ul>
<p><b>Yearbook Production 15</b> (grade 10/11/12)</p> <p>3 credits</p>	<p><b>Prerequisite: None</b></p> <p>When you work on the yearbook, you are a historian, a photographer, a journalist, a graphic designer and a member of a team all working toward a common goal – capturing that school year and all the students' experiences within it. A journalistic approach will teach you skills in business, graphic design, visual communication, writing, photography and collaborative relationships. This is a 3</p>

	<p>credit CTS course.</p> <ul style="list-style-type: none"> <li>● COM 1005: Visual Composition</li> <li>● COM 1025: Typography</li> <li>● COM 2025: Electronic Layout &amp; Publishing 1</li> </ul>
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## Supplementary Courses

<p><b>Comparative Government 20</b> (grade 10/11/12)</p> <p>3 credits</p>	<p><b>Prerequisite: None</b></p> <p>This course introduces students to the rich diversity of political life outside Canada. The course uses a comparative approach to examine the political structures, policies, and political, economic, and social challenges among selected countries. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.</p> <p>Students will have the option to incorporate the first half of the AP Comparative Government and Politics course into their learning—giving students the option to write the AP Comparative Government and Politics exam for university credit in May.</p>
<p><b>Creative Writing and Publishing 15/25/35</b> (grade 10/11/12)</p> <p>3 credits</p>	<p><b>Prerequisite:</b>  <b>Creative Writing and Publishing 15: None</b>  <b>Creative Writing and Publishing 25: Creative Writing and Publishing 15</b>  <b>Creative Writing and Publishing 35: Creative Writing and Publishing 25</b></p> <p><b>Creative Writing and Publishing 15</b> is a three credit course that explores the fundamentals of creative writing and the publication industry. In this course, students will follow their writing interests and passions, writing in a variety of specific creative writing genres. Students will build and manage their own portfolios, from short story, non-fiction article and essay, script, non-traditional, speech writing, monologue, and poetry.</p> <p><b>Creative Writing and Publishing 25</b> is a three credit course that builds on the skills learned in the 15 level course.</p> <p><b>Creative Writing and Publishing 35</b> is a three credit course that provides a more thorough undertaking of the writing process and product through the use of peer assessment and publication standards (including oral presentation). In CWP 35, students will have more opportunity to enhance their writing goals and pursue</p>

	interests in the publication world.
<b>General Sociology 20</b> (grade 10/11/12) 3 credits	<p><b>Prerequisite: None</b></p> <p>The sociological perspective focuses on “what is” rather than “what ought to be.” Students should be able to analyze occurrences around them objectively. They should feel themselves to be a part of society, understand its influence on their lives, and visualize their roles in societal change. Topics in Sociology 20 include the discipline of sociology; culture; and society and social class.</p>
<b>Kettle Valley Railway cycle</b> (grade 10/11/12) 3 credits	<p><b>PreRequisite - None</b></p> <p>Students will cycle from the Rock Creek area to Oliver BC. It’s about 300 km along an abandoned railway. The specifics could vary as we work out logistics.</p> <p>The course would run outside of school hours - meeting club-like throughout the year, and running the trip early July or late August. The trip dates would be dependent on student availability.</p> <p>Students will be cycling loaded. That means they would be carrying their gear and their food for a few days. There are a couple of spots to resupply, but about three days of food would need to be carried at a time. During term 2, students could be coached on building up their own ride for the trip, making their own luggage systems, or they could simply acquire it.</p> <p>We would have a couple of experiences during the year (weekend or so) to galvanize the group. This could be training for the trip itself.</p> <p>The KVR is not a technical cycle. The grade is less than 2%, but students would be doing about 50km a day on gravel/trail.</p> <p>Camping in tents, the students carry, at campsites (some primitive). Please note there is a fee for this course.</p>
<b>Learning Strategies 15/25/35</b> (grade 10/11/12) 3 or 5 credits	<p><b>Prerequisite: None</b></p> <p>Learning Strategies is a course designed to support high school students as they manage their learning in other courses. The nature of the course is practical as students will focus on five areas of active engagement: understanding self and others as learners; organization and management of time and resources; understanding the learning process; self-advocacy and relational management in a school setting; responding to assessment and evaluation. The course will meet students at the level of skills and understanding that they currently possess and</p>

	foster individual growth to support learning in their overall school experience.
<b>Military Studies 15</b> (grade 10/11/12)  3 credits	<b>Prerequisite: None</b>  Military Studies 15 will offer an examination of World War II from multiple perspectives, including historical and contemporary contexts. Students will inquire into the social, political, environmental and economic forces that shaped the conflict and influenced the modern condition. In this course, students will interpret personal and collective stories in relation to secondary and primary sources related to WWII in order to understand how history conserves or distorts memories. Students will critically analyze the conflict in relation to strategy and technology while examining the implications of war upon a nation, country and the world.
<b>Personal Psychology 20</b> (grade 10/11/12)  3 credits	<b>Prerequisite: None</b>  Personal Psychology 20 provides students with a practical foundation in the study of psychology., this course focuses on the following 7 thematic units of study: Introduction to Psychology, Personality, Behaviour, Intelligence, Heredity and Environment, Biological Influences on Behaviour, and Understanding Perception. Group discussion, class participation projects and presentations are essential components of this class.
<b>Philosophies 30</b> (grade 10/11/12)  3 credits	<b>Prerequisite: None</b>  Dive into the sea of questions, arguments and reason as we explore some of the central issues that have puzzled human beings for thousands of years:  What is human nature? Do I have free will, or are there limits on my choices? How can I establish my own direction in life in the face of other people doing the same? How should we share power with each other in a society? Who should rule and why? Are we selfish or giving at heart? Does our ability to use complex language truly set us apart from other creatures? Does my own experience define the existence of all other humans? Is the human ability to be self-reflective of value to the future? What's the right thing to do?  Examine these and other questions as we draw upon the thinking of philosophers from around the world, both past and present, in order to explore, establish, and challenge our own perspectives.
<b>Ukulele and Guitar 15/25/35</b> (grade 10/11/12)  3 credits	<b>Prerequisite: None</b>  Ukulele/Guitar 15 will introduce students to the basics of playing. It is designed to be accessible for students with no musical background as well as those with prior experience. The course will cover parts of the instrument, tuning, changing strings, music theory basics, open chords, pentatonic scale, finger picking, flat



	<p>picking, jamming, composing, song structure, music history/appreciation, singing and playing together, reading tablature, bar chords and multi track recording using GarageBand.</p> <p>Please note there is a fee for this course.</p>
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