

Westmount Charter School

Course Selection Handbook

Grades 9-12

2017 - 2018

Updated March 14, 2017

Program Planning and Course Selection for High School	2
High School Redesign	2
High School Graduation Requirements	3
Course Selection Checklist for Grade 9	4
Course Selection Checklist for Grades 10 – 12	5
Program Planning Template	7
Grade 9 Course Descriptions	8
Students going into grade 10 have two options for taking their core courses:	12
English	13
Social Studies	14
Mathematics	16
Sciences	18
Fine and Performing Arts	23
Second Languages	28
Career and Technology Studies (CTS)	29

Program Planning and Course Selection for High School

Students at Westmount Charter going into grades 9-12 have the opportunity to access a variety of supports when planning their high school program.

In February and 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 individually with a counsellor from Student Services to go through their program plan, ask specific questions, and get support for post-secondary planning.

Students planning to apply to post-secondary (university, college, technical schools) will 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. The Career Centre also provides information on scholarships, and this information is continually updated on our Westmount Charter website under Students--Mid/High--Student Services.

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

High School Redesign

Alberta schools have been encouraged to form dual credit partnerships with post-secondary institutions and industry. Dual Credit creates more opportunities for students to earn credits in high school and post-secondary institutions at the same time. Westmount Charter School has formed dual credit partnerships with degree granting institutions in Calgary to reflect the needs of our gifted learners. Dual credit partnerships are an opportunity to safely expose our gifted students to the natural next step: post-secondary courses, providing our students with invaluable growth opportunities in both affective and intellectual domains.

These course offerings may vary depending upon the needs/interests of students, our access to programming at these post-secondary institutions, and availability of funding. Students interested in dual credit should discuss this with the learning leader in that subject or our High School Redesign Coordinator.

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)
 - A complete list of Alberta CTS courses can be found starting page 8 of the following document: **Alberta Course Codes 2014-2015**
- 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

WESTMOUNT CHARTER SCHOOL
Course Selection Checklist for Grade 9
2017-2018

Grade 9's must register in only ONE if the following:

	Course Name	Extra Fees
REQUIRED COURSES		
	Humanities - Full Year (LA & SS integrated) 9	
	Mathematics 9/10	
	Science	
	Physical Education	
SELECT THREE (3) OPTIONS COURSES:		
	Art	YES
	Comics	YES
	Drama	YES
	Epistemology	
	Film Studies	
	French	
	Journalism	
	Model United Nations	
	Music Intermediate Concert Band (Level III)	
	Outdoor Education	YES
	Spanish	
	Yoga	

Please note that you should have at least three or more years of French or Spanish experience in order to select one of the following language options. If you are coming from a bilingual environment, please contact cathleen.bloxham@westmountcharter.com to discuss future language options.

Additionally, courses are offered based on demand and enrollment, not on first-come, first-served basis. Therefore, while a course(s) may appear on the course selection sheet, they may not appear on the schedule if the demand or enrollment were low.

WESTMOUNT CHARTER SCHOOL 2017-2018 COURSE SELECTION
Grades 10 – 12

For Course Descriptions and pre-requisites:

http://www.westmountcharter.com/admissions/high_course.html

YELLOW = REQUIRED COURSES FOR HIGH SCHOOL GRADUATION

Course Name	Pre-Req or Co-Req	Extra Fees	Credits Earned
Core Courses			
English 10-1	LA 9		5
English 20-1	Eng 10		5
English 30-1	Eng 20		5
English 35 AP	Eng 30		3
Social Studies 10-1	SS 9		5
Social Studies 20-1	SS 10		5
Social Studies 30-1	SS 20		5
AP Social Studies Flex	See Handbook		3-9
Mathematics 10C	Math 9		5
Math 20-1	Math 10C		5
Math 30-1	Math 20		5
Math 31	Math 30		5
Math 31AP (AP Calculus AB)	Math 30		5
Math 35AP (AP Calculus BC)	Math 31AP		3
Statistics 35AP	Math 20		5
Science 10	Sci 9		5
Biology 20	Sci 10		5
Biology 30	Bio 20		5
Biology 35 AP (Biology 30/35 AP)	Bio 20		5 + 3
Chemistry 20	Sci 10		5
Chemistry 30	Chemistry 20		5
Physics 20	Sci 10		5
Physics 30	Physics 20		5
Physics 35 AP (Physics 30/35 AP)	Physics 20, Chemistry 20		5 + 3
Phys Ed 10 Flex	Phys Ed 9		3-5
Phys Ed 20 Flex	Phys Ed 10		3-5
Phys Ed 30 Flex	Phys Ed 20		3-5
CALM 20			3

	Course Name	Pre-Req or Co-Req	Extra Fees	Credits Earned
	Fine and Performing Arts Options			
	Art 10/20/30	10,20	Yes	5
	Studio Art 35 (AP)	Art 20	Yes	3
	Advanced Acting 15/25	15,25	Yes	5
	Drama 10/20/30	10,20	Yes	5
	Technical Theatre 15/25	15,25	Yes	3
	Instrumental Music/Strings 10/20/30	10,20	Yes	5
	Instrumental Jazz Music 15/25/35	15,25	Yes	5
	Percussion Ensemble 15/25/35	15,25	Yes	3
	Second Languages Options			
	French 10 (3year)	none		5
	French (9-year) 10/20/30	10,20		5
	Spanish (6-year) 10/20/30	10,20		5
	Career and Technology Studies (CTS) Options			
	ADST 10			1-3
	Communication Technology (Comm Tech) Levels 1,2,3	1,2	Yes	3-5
	Computer Programming Levels I/II	1, 2		3
	Medical Science I *NEW		Yes	3
	Outdoor Education 15/25/35 *NEW	15/25	Yes	3
	Remote Responder 1 *NEW			3
	Sports Medicine *NEW			3
	Supplementary Options			
	Creative Writing for Publication 15/25			6
	Enhanced English for Academic Purposes 35			5
	Critical Reading and Writing 35			5
	Forensic Science 25/35	25		3
	Geography 20			3
	Geography 30 *NEW	Geo 20		3
	Learning Strategies 1 ² *NEW	No		3
	Personal Psychology 20			3
	Speech and Debate 15			3
	Ukelele and Guitar 15		Yes	3
	Yoga 15/25/35	No		3

² Last Updated March 14/2017

WESTMOUNT CHARTER SCHOOL

Grade 9 Course Descriptions

REQUIRED COURSES

Humanities 9 - full year course

Humanities 9 is an interdisciplinary approach to English Language Arts 9 and Social Studies 9. This full year course will intertwine plays, poetry and prose to notions of governance, economics, citizenship, quality of life and identity. Students will participate in a post-apocalyptic zombie simulation, read classic and dystopian literature, and, through enriched learning materials, thoroughly develop reading, writing, speaking and thinking skills. Additionally, this course will have two designated Humanities teachers who will facilitate the course in a rigorous high school context.

Mathematics 9 - semestered course

The mathematics curriculum is shaped to foster the development of mathematically literate students. It is developed so that students can extend and apply their learning as an active and constructive process. The grade 9 mathematics curriculum consists of the analysis of change, consistency, number sense, patterns, relationships and spatial reasoning through the study of Patterns and relations, Shape and Space and Statistics and Probability. The mathematical processes used include communication, mental mathematics, estimation, problem solving and technology.

Science 9 - semestered course

Science 9 builds on knowledge gained in earlier science courses. Each unit focuses on a major theme within science and will prepare the student to take further courses in the natural and physical sciences. There are five units: Biological Diversity, Matter and Chemical Change, Environmental Chemistry, Electrical Principles and Technologies, Space Exploration.

Physical Education 9 - semestered course

The students are exposed to aspects of the general outcomes (Activity, Benefits Health, Cooperation and Do It Daily For Life), as well as the basic skills progress from “the selection” to “the refinement” of locomotor, non-locomotor and manipulative skills. This is the last year that Health is included in the PE curriculum, including topics such as drugs, alcohol, relationships and sexual education. Field trips typically include squash and rock climbing.

FINE & PERFORMING ARTS OPTIONS

Art 9

Students will expand their skills and work with a variety of materials to create individual works of art. Students will have the opportunity to explore themes and techniques of interest to them and push their creativity.

Drama 9

In Drama 9 we will focus on scene study, objectives and tactics, character and voice work. We learn the skills of armed and unarmed stage fighting, and special effects makeup. Each class will have an opportunity to demonstrate components of the course through performances.

Intermediate Band (Level III) 9

Prerequisite: Junior 7 Band or minimum 2 years of band experience

This course is for grade 8/9 students with at least 2 years of experience on their instrument, and previous experience playing in a Concert Band. Study is more in-depth than in Junior Band and requires strong commitment to a regular practice routine. The level of difficulty of the music begins the year at Grade 3 and the year ends with some grade 4 repertoire.

SECOND LANGUAGES OPTIONS

French 9 (9 year program)

Prerequisite: French 8

Open to any student who wants to have fun, learn a second language and about Francophone culture. Great transition course between mid-school and high school French. In French 9, students work on sports, housing and arts in French Canada. Lots of group projects and skits. In the course, students expand their conjugations and vocabulary tremendously. Movie and novel studies are the two novelties of French 9 in preparation for high school.

Spanish 9 (6 year program)

Prerequisite: Spanish 8

In this course, students will have the opportunity to demonstrate listening, oral, and written skills in Spanish in different settings. In this level students are introduced to Spanish literature, culture and more advanced grammatical structures.

SUPPLEMENTARY OPTIONS

Comics books and Philosophy 9

Friedrich Nietzsche, The Batman, Jack Kirby, The Matrix, Joseph Campbell, The Punisher and Jim Lee all have something in common. In this course we look at contemporary media, philosophy, visual arts, and the production process. Using media students can relate to and are inundated with, the instructors introduce several veins of philosophical thought, and students are requested to ask themselves some deep questions about who they are. We look at the development of character through the eyes of philosophy, video game design, graphic novels and film. Students are introduced to character design - basic proportion, anatomy and aesthetic choices surrounding characters. We ask students to use these concepts to develop characters and explore what these questions really mean. During the last half of the course students are formed into production teams that mimic a real world comic book studio. In groups of three, students will choose the role of the writer, penciller or inker and develop a small graphic novel. These graphic novels should allow students to illustrate the culmination of their learning and provide them with a new way to address philosophical and real world issues.

Outdoor Education 9

The grade 9 year of the Westmount outdoor education program focusses outdoor education and wilderness ethics. As it take place everyday it is considered a double class and includes two 3 day camps; a spring or fall backpacking trip in Kananaskis Country and a winter cross country skiing/snowshoeing camp to Mosquito Creek.. Students will attend a series of introduction to kayaking half-day sessions at the U of C pool as well as a multitude of activities in class such as biking, map work, backcountry cooking to name a few. As this an experiential class based around developing the skills necessary to safe; and a responsibly travel in the backcountry these field trips are an expectation of this course.

Epistemology 9

Epistemology 9 (formerly known as Project TED), will examine the Theory of Knowledge in an environment which welcomes original thought. Students will examine eight areas of knowledge: mathematics, natural sciences, human sciences, history, the arts, ethics, religious knowledge systems and indigenous knowledge systems. Student will also examine eight ways of knowing: Emotion, Faith, Imagination, Intuition, Language, Memory, Reason, Sense perception. This class will help prepare students for the academic realities they will face in high school.

Film Studies 9

In this course we will examine traditional movies as well as the film genre John Grierson describes as the “creative treatment of actuality,” ie. The documentary. Students will be exposed to films spanning cinematic genres including Film Noir, Comedy, Thriller, Early Silent, Foreign, etc.

Over the course of this semester we will:

- View and examine films (critically, creatively, from a research aspect in writing and in discussion)
- Consult with professionals working in the field and discuss their creative and production process (for instance, what it's like to see a film through from inception right to its presentation).
- Instruction in various production skills necessary to create a video documentary
- and/or students will be asked to critique film content in written and verbal form.

Journalism 9

Students will experience journalism in the form of print, online, radio and film, as well as hosting guest speakers who work in the field. The classroom itself will have a newsroom atmosphere where students report, photograph and assemble Newspaper style articles and the instructor is their editor. We will meet at the beginning of each class to discuss story ideas progress and to critique completed stories while the bulk of the class is used to work on individual pieces intended to go to print. Students will work independently, researching and preparing news, feature, editorial and investigative articles.

Model United Nations 9

In this course, students are introduced to the workings and procedures of the United Nations. Students explore international relations in depth in addition to developing skills such as critical thinking, public speaking and negotiating. Students will be taught and offered opportunities to compete in Model United Nations tournaments at Westmount, as well as around the city. Students will engage in several simulations throughout the year. One of these simulations will be the United Nations Security Council, where students will represent the nations on this council and discuss issues facing society. Students will also be offered the opportunity to join our Model United Nations team and compete around Calgary.

Yoga 9

Yoga 9 is building upon the roots and philosophy of the eight limbs of ashtanga yoga. There is no prerequisite for this course. Each class will include a guided meditation as well as a physical asana practice. Students will have an opportunity to experience various styles of yoga as well as an exploration of the chakra system. Working with elements such as breathing, mindfulness and stretching, students will acquire skills to self-regulate their emotions and become self-aware. No yoga experience is necessary, just a willingness to be with your breath on the mat.

English

Course Name	Description
<p>English 10-1 (grade 10)</p> <p>5 credits</p>	<p>Prerequisite: Language Arts 9</p> <p>English 10-1 is the first in a series of three 5-credit courses designed for students to become actively involved in enhancing their skills in critical reading, writing, listening, speaking, viewing, and representing.</p> <p>Emphasis in this course is placed on three aspects of communication and language use:</p> <ul style="list-style-type: none"> * Practical the use of language and communication skills in daily life and the workplace * Personal using literature as a tool to enhance self understanding and self expression * Critical using language and communication skills to express ideas, opinions and viewpoints.
<p>English 20-1 (grade 11)</p> <p>5 credits</p>	<p>Prerequisite: English 10</p> <p>English 20-1 is the second in a series of three 5-credit courses designed for students to become actively involved in enhancing their skills in critical reading, writing, listening, speaking, viewing, and representing.</p> <p>In addition to the practical, personal and critical aspects of communication and language use, students will work on critical understanding of literature, specifically literary structure and technique.</p>
<p>English 30-1 (grade 12)</p> <p>5 credits</p>	<p>Prerequisite: English 20</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>There is a diploma exam at the end of this course.</p>
<p>English 35 AP</p> <p>(grade 11/12)</p> <p>3 credits total:</p>	<p>Prerequisite: English 30</p> <p>Recommendations: Anyone taking English AP should have a deep interest in literature and be a strong reader. It is strongly recommended that to be successful in English AP you should have earned a minimum of 80% in English 30 or through teacher recommendation</p> <p>English 35 AP is a course which is designed to provide highly motivated students the opportunity to challenge themselves with the study of English at the first-year university level while still in high school. Although it is expected that all students will write the AP Literature and Composition exam in May, the course will not be</p>

	<p>exclusively focused on the exam. We will explore a full range of approaches and responses to a selection of classic literary texts. As well, the structure of the course is designed to introduce students to instructional practices and learner expectations that are typically employed at the university level, such as student led seminars and major independent projects. In the evaluation of student work, however, standards will be equivalent to those employed in English 30.</p>
<p>Creative Writing and Publishing 15/25 (grade 10/11/12)</p> <p>6 credits</p>	<p>Prerequisite: None</p> <p>Creative Writing and Publishing 15/25 is a six-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>Critical Writing and Reading 35 (grade 11/12)</p> <p>5 Credits</p>	<p>Prerequisite: English 30-1</p> <p>Recommendations: Anyone taking critical Writing and Reading should have deep interest in writing and be a strong reader</p> <p>This course focuses on effective writing styles for academic and wider social contexts. Students will respond to texts pertaining to a wide variety of disciplines and develop critical reading and thinking skills. Students will also refine their understanding and practice of the structures of writing. Though the essay format is a central theme, the course broadens the competencies beyond academic and professional environments to include a variety of settings. Students will learn to apply the principles of effective writing to express ideas, convey information, engage others in conversation through page and to read and study what others have written. This course encourages students to experiment, create, surprise themselves with , and discuss their writing as much as possible.</p>

Social Studies

<p>Social Studies 10-1 (grade 10)</p> <p>5 credits</p>	<p>Prerequisite: Social Studies 9</p> <p>Social Studies 10-1 attempts to address the following question: “To what extent should we embrace globalization?” There are many perspectives on this issue, and course participants will investigate them by examining globalization’s origin, its impacts on lands, cultures, economies, human rights, and quality of life, and its impacts at local, national, and international levels.</p> <p>Students will explore the relationship among globalization, citizenship, and identity while developing a personal point of view.</p>
<p>Social Studies 20-1</p>	<p>Prerequisite: Social Studies 10</p>

<p>(grade 11)</p> <p>5 credits</p>	<p>Social Studies 20-1 attempts to address the following question: “To what extent should we embrace nationalism?” There are many perspectives on this issue, and participants will investigate them by examining nationalism’s origin, its influence on regional, international and global relations. Students will explore the relationship among nationalism, citizenship, and identity while developing a personal point of view.</p>
<p>Social Studies 30-1 (grade 12)</p> <p>5 credits</p>	<p>Prerequisite: Social Studies 20</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 understandings 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>Advanced Placement Social Studies Flex</p> <p>3-9 credits</p>	<p>Recommended: 80% or higher in the most recent Social Studies 9, 10, 20 or 30 course *</p> <p>AP Social Studies Flex is a survey course for students who intend to write the respective AP College examination to earn university credit. Students have the option of selecting one of four AP curriculums: Comparative Politics and Government; European History; Human Geography or World History. The selected AP curriculum is designed to be rigorous through the complexity of ideas and academic expectations in relation to reading and writing. AP Flex targets students who are interested in culture, economics, geography, history and politics. This course is designed for students who are motivated to explore these subjects through the differentiated approach of flexible pacing, semi-autonomous learning, and coached exploration of the curriculum.</p> <p>*AP European History, AP Human Geography – Students in grade 10 or higher may select one of these options AP Comparative Politics and Government - Students in grade 11 or higher may select this option AP World History – Students in grade 12 or who have completed a previous AP Social Studies course may select this option</p> <p>Note: This class can be taken more than once.</p>
<p>Geography 20 (grade 11)</p> <p>3 credits</p>	<p>Prerequisite: None</p> <p>Local and Canadian Geography will explore the physical world and human interactions within it. Concepts such as settlement and occupancy, regions, spatial interaction, patterns of human development, areal association and scale will be discussed in regard to Canada and its defined regions. A focus will be made on use, interpretation and creation of geographical resources such as</p>

	maps, aerial photographs, pictures, tables and graphs. Geographic systems, tectonic and gradational forces, climate, currents and winds will also be covered in context to Canada.
World Geography 30 (grade 12) 3 credits	Prerequisite: Geography 20 World Geography will explore the patterns of population and settlement, physical elements of the planet and humankind's use of the physical world. Beginning with what we know of Canada, we will expand our study to include global settlement patterns, trends and resources. Emphasis will be put on the relationship between physical structures and human interaction with them.
Personal Psychology 20 (grade 10/11/12) 3 credits	Prerequisite: None 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.
Speech and Debate 15 Grades 10-12 3 credits	This course introduces students to the effective use of language and how it is essential to achieve greater success in all curriculum areas. Units of study include: lifelong application of language skills, the interrelatedness of listening, speaking, reading, writing and viewing, strengthening research skills, development of higher level cognitive skills, as well as strengthening the use of language to communicate understandings, ideas and feelings. These skills assist with the student's development of social and personal skills. Students will have opportunities to experience language in functional, artistic and pleasurable activities, such as Speech & Debate competitions.

Mathematics

Course Name	Description
Mathematics 10C (Grade 10) 5 credits	Prerequisite: Mathematics 9 Mathematics 10C 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. The sequence is a co-requisite for Mathematics 31. Mathematics 10C emphasizes mathematical theory, measurement, algebra and number, relations and functions, trigonometry and incorporates technology as a tool to enhance understanding.

<p>Mathematics 20-1 (grade 10/11)</p> <p>5 credits</p>	<p>Prerequisite: Mathematics 10C</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. The sequence is a co-requisite for Mathematics 31. Mathematics 20-1 emphasizes mathematical theory and includes algebra and number, relations and functions and trigonometry and incorporates technology as a tool to enhance understanding.</p>
<p>Mathematics 30-1 (grade 10/11/12)</p> <p>5 credits</p>	<p>Prerequisite: Mathematics 20-1</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 to provide students with the mathematical understandings and critical thinking skills identified for entry into post-secondary programs that require the study of calculus. The sequence is a co-requisite for Mathematics 31. Mathematics 30-1 emphasizes mathematical theory and includes permutations, combinations and binomial theorem, relations and functions and trigonometry and incorporates technology as a tool to enhance understanding.</p>
<p>Math 31 AP (AP Calculus AB)</p> <p>5 credits</p>	<p>Recommended 65% Mathematics 30-1</p> <p>Recommendations: It is strongly recommended that to be successful in Advanced Placement (AP) Calculus you should have earned a minimum of 80% in Mathematics 20 - 1 and 30 – 1.</p> <p><i>If you do not meet the requirements set out in the recommendation, a meeting with an Assistant Principal and the Learning Leader is required in order to open up the potential for enrolment.</i></p> <p>AP enables students to pursue college-level studies while still in high school. Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. Calculus AB develops the students' understanding of the concepts of calculus and providing 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 http://apcentral.collegeboard.com). Students have the option of taking only Math 31 AP or writing the AP Calculus AB exam for university credit in May.</p> <p>This course is not equivalent to Alberta Education Math 31.</p>
<p>Math 35 AP (AP Calculus BC)</p> <p>3 credits</p>	<p>Prerequisite: Math 31 AP (AP Calculus AB)</p> <p>AP enables students to pursue college-level studies while still in high school. Calculus BC is course devoted to topics in differential, integral calculus and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. Calculus BC continues to develop the students' understanding of the concepts of calculus and providing 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</p>

	placement (see http://apcentral.collegeboard.com). 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.
Statistics 35 AP (grade 10/11/12) 5 credits	Completion/Enrolled in Mathematics 20-1 Students should have a strong grasp of mathematical process and possess a sufficient mathematical maturity. Curriculum for this course will provide students with a non-calculus based introduction to statistics. It follows 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 http://apcentral.collegeboard.com).

Sciences

Course Name	Description
Science 10 (grade 10) 5 credits	Prerequisites: Science 9 <i>Students in grade 9 will be required to meet with an Assistant Principal and the Learning Leader in order to open up the potential for enrolment.</i> This course is the first in the academic sequence leading to Biology 20 and 30, Chemistry 20 and 30, 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.
Biology 20 (grade 10/11/12) 5 credits	Prerequisite: Science 10 This course build 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: Photosynthesis and Cellular Respiration, Ecosystems and Ecology, and Human Systems.

<p>Biology 30 (grade 11/12)</p> <p>5 credits</p>	<p>Prerequisite: Biology 20</p> <p>Recommendations: It is strongly recommended that to be successful in Biology 30 you should have earned a minimum of 75% in Biology 20</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. It is recommended that a desire to study biology in post-secondary is considered when choosing to enroll in this course.</p>
<p>Biology AP (grade 11/12)</p> <p>8 credits total: 5 Biology 30 3 Biology 35AP</p>	<p>Recommend 65% Biology 20</p> <p>Recommendations: It is strongly recommended that to be successful in Biology AP you should have earned a minimum of 80% in Biology 20 and you have completed the Chemistry 20 course or through recommendation by your biology teacher.</p> <p><i>If you do not meet the requirements set out in the recommendation, a meeting with an Assistant Principal and the Learning Leader is required in order to open up the potential for enrolment.</i></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. 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.</p> <p>The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see http://apcentral.collegeboard.com).</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>Chemistry 20</p> <p>5 credits</p>	<p>Prerequisite: Science 10</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>Chemistry 30</p> <p>5 credits</p>	<p>Prerequisite: Chemistry 20</p> <p>Recommendations: It is strongly recommended that to be successful in</p>

	<p>Chemistry 30 you should have earned a minimum of 75% in Chemistry 20 and be currently enrolled or previous credit in Math 10</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>Physics 20</p> <p>5 credits</p>	<p>Prerequisite: Science 10 and currently enrolled or previous credit in Math 10</p> <p>Recommendation: Students need a strong foundation in mathematics, including trigonometry and multi-variable algebra. Mathematics 10C is a sufficient prerequisite for Physics 20. Students must also have credit in Science 10. Students who achieved less than 65% in Science 10 will find this course very challenging.</p> <p>This course is the first in the Physics 20-30 academic sequence and builds upon 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.</p>
<p>Physics 30</p> <p>5 credits</p>	<p>Prerequisite: Physics 20</p> <p>Recommendations: It is strongly recommended that to be successful in Physics 30 you should have earned a minimum of 75% in Physics 20 and be currently enrolled or previous credit in Math 10</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>Physics AP (grade 11/12)</p> <p>8 credits total: 5 <i>Physics 30</i> 3 <i>Physics 35AP</i></p>	<p>Prerequisite: 50% Physics 20 and Chemistry 20</p> <p>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 or through recommendation from your physics teacher.</p> <p><i>If you do not meet the requirements set out in the recommendation, a meeting with an Assistant Principal and the Learning Leader is required in order to open up the potential for enrolment.</i></p> <p>Physics AP expands the scientific and related technological knowledge and skills</p>

	<p>provided by Physics 20 and Physics 30 that will enable students to further understand and interpret their world. It also provides an important introduction to a range of fundamental concepts not included in the Physics 20 and Physics 30 course, such as Thermodynamics, Electrical Circuit Theory and Fluid Mechanics. Physics 35 AP provides students interested in Physics an enriched experience incorporating rigorous study at the first year university level. Students are required to prepare lab reports in the LaTeX formatting language.</p> <p>The topics covered and the difficulty of the course follows the College Board Standards for advanced placement (see http://apcentral.collegeboard.com).</p> <p>Students will be completing both the AP and the Alberta Physics 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 Physics 30 program.</p>
<p>Forensic Science 25 (grade 10/11/12)</p> <p>3 credits</p>	<p>Prerequisite: Science 10</p> <p>This course is designed to explore basic scientific concepts in relation to solving crimes. When studying these scenarios, students will be required to apply their knowledge of forensic techniques including (but not limited to): fingerprint analysis, blood spatter patterns and blood typing, hair and fiber examination, chromatography and handwriting investigation, as well as DNA analysis. Students enrolled in this course must be mature enough to handle the sensitive content of this course which includes violent acts, serial killer profiles, alcohol and substance abuse. Students must be able to discuss forensic criminal cases in an objective manner, while being sensitive and respectful toward the negative impact that a crime can have upon victim(s).</p>
<p>Forensic Science 35 (grade 11/12)</p> <p>3 credits</p>	<p>Prerequisite: Forensic Science 25</p> <p>Recommendation: Completion of Biology 20 is strongly recommended</p> <p>Students will be required to look critically at the methods learned in Forensic Science 25, and will gain insight into the technologies that are being developed to improve the practice of forensic science. They will also delve deeper into more specific roles of forensic scientists including (but not limited to): forensic anthropologists, entomologists, pathologists and odonatologists.</p>

Physical Education and CALM

Course Name	Description
<p>Physical Education 10 (grade 10)</p> <p>3-5 credits</p>	<p>Prerequisite: None</p> <p>The PE Flex program is a new opportunity for grade 10, 11 & 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</p>

	<p>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. All field trips are pay as you go and require forms and payment to ensure a spot on the trip.</p>
<p>Physical Education 20 & 30 Flex</p> <p>3-5 credits</p>	<p>Prerequisite: PE 10</p> <p>The PE Flex program is a new opportunity for grade 10, 11 & 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 fieldtrips are pay as you go and require forms and payment to ensure a spot on the trip.</p>
<p>CALM 20 (Career & Life Management) (grade 10/11/12)</p> <p>3 credits</p>	<p>Prerequisite: None</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 health literacy. It emphasized knowledge, attitudes, behaviours, competencies and values, and provides students with opportunities to enhance their capacities in problem solving, critical thinking and reflection.</p>
<p>Yoga and Mindfulness 15 (grade 10-12)</p> <p>3 credits</p>	<p>Prerequisite: None</p> <p>This course will introduce students to the basics of yoga and mindfulness. Students will work with yoga postures (asanas), breathing techniques (pranayama) and relaxation methods of meditation. Students will learn the historical roots of yoga and have an understanding of basic anatomy and physiology as it applies to the discipline. The program is designed to allow students to experience the benefits of increased flexibility, strength, focus and concentration. Through continued practice students will relieve stress and experience health benefits. Additionally, this course will offer an introduction to mindfulness strategies including meditation and the science behind mindfulness. Included in this section will be topics such as: the mind working with thoughts (past, present and future), understanding the science of basic human neurobiology and our motivational systems, how to deal with challenging emotions such as fear, worry and anxiety and other related topics.</p>
<p>Yoga and Mindfulness 25 (grade 10-12)</p>	<p>Prerequisite: Yoga and Mindfulness 15</p> <p>This course is a continuation of yoga and mindfulness 15. Students will use basic and intermediate postures (asanas), breathing techniques (pranayama)</p>

3 credits	and relaxation methods of meditation. Students will expand on the historical roots of yoga and continue to apply basic anatomy and physiology as it applies to the discipline. Students are expected to show an increased sophistication and refinement of skills in demonstrating their understanding of the sympathetic and parasympathetic nervous system, thus being able to relieve stress. A more detailed investigation of the science behind mindfulness will be explored. Included in this section will be topics such as: placebos, illness and the power of belief, interrupting addiction and troublesome habits and other related topics.
Yoga and Mindfulness 35 *NEW (grade 10-12) 3 credits	Prerequisite: Yoga and Mindfulness 25 This course is a continuation of yoga and mindfulness 15/25. Students will use basic and more advanced postures (asanas), breathing techniques (pranayama) and relaxation methods of meditation. Students will expand on the historical roots of yoga and continue to apply basic anatomy and physiology as it applies to the discipline. Students are expected to show an increased sophistication and refinement of skills in demonstrating their understanding of the sympathetic and parasympathetic nervous system, thus being able to relieve stress. Additionally, this course will offer more advanced mindfulness strategies including meditation and the science behind mindfulness. Included in this section will be topics such as: the neurobiology of self-preoccupation, overcoming traumas large and small and other related topics.

Fine and Performing Arts

Course Name	Description
Art 10 5 credits	Prerequisite: None Introductory Studio Art: This is an introductory visual arts course that allows high school students to explore a variety of media areas and techniques. Students will acquire a basic understanding of art principles and elements. The focus of the course is to develop strong foundational skills in visual arts. They will be involved in sketchbook activities and projects that are designed to stimulate creativity, and will focus on technical drawing and design skills.
Art 20 5 credits	Prerequisite: Art 10 Instructional & Intermediate Studio Art: This course will help students to continue to develop and refine the skills and artistic foundation developed in Art 10. The students will develop these skills through in-depth studies and critical analysis that enables the artist to interpret and evaluate art. The students will continue to demonstrate and develop an advanced control of a range of visual artistic skills and techniques. The studio experience will focus on personal themes of expression, requiring appropriate selection of media by the artist and the application of artistic skills and knowledge.

<p>Art 30</p> <p>5 credits</p>	<p>Prerequisite: Art 20</p> <p>This is an advanced studio class where artists are encouraged to hone their technical ability and demonstrate an advanced understanding of media and media techniques. Students at this level are expected to adopt a strong mentorship role in the studio and demonstrate professional studio behaviour. Artists will continue to develop their skills but may choose to focus on a specific media in which to specialize or master. Art critiques continue to play an important role in the development of artistic vocabulary and understanding. The exploration and development of conceptual artwork is encouraged by artists of this caliber. The studio experience will focus on students growing in an individual direction, artistic evolution, conceptual maturity in their work and advanced technical ability.</p>
<p>Studio Art 35 AP</p> <p>3 credits</p>	<p>Prerequisite: Art 30</p> <p>It is recommended that to be successful in this course you should have earned a minimum of 90% in Art 30</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 24 individual works that are evaluate 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>Advanced Acting 15/25 (grade 10/11/12)</p> <p>5 credits</p>	<p>Prerequisite: None. Drama 9 recommended</p> <p>Students who have requested Advanced Acting are asked to memorize and prepare a 1-2 minute contemporary monologue, to be performed before entrance to the class. A time for monologue performance and meeting with the teacher will be set for June. Advanced Acting is designed for those students who wish to further develop skills in theatre with the objectives and intentions being demonstrated through public performance. Students will explore voice, movement, script analysis, character, playwriting and work as a collective ensemble. Students enrolled in Advanced Acting will learn to work as a theatre company and will make up the cast for Westmount Drama Society's main stage production. While some of the objectives of Advanced Acting are similar to those of Drama 10, 20 and 30, it must be understood that the context and learning strategy will differ greatly.</p>
<p>Drama 10 (grade 10)</p> <p>5 credits</p>	<p>Prerequisite: None, but Drama 9 is recommended</p> <p>Character, Movement and Motivation: Drama 10 investigates the physical and emotional make-up of character. Modules include a further exploration and development of scene study, character creation, physical theatre, improvisation, and intensive mask workshops. Students will explore physical communication through neutral mask and the Laban Technique. They will also create and develop their own unique character masks and participate in activities designed to assist character development through a process of discoveries and stimulus. Students of Drama 10 can look forward to developing a heightened personal awareness while building on dramatic skills that will take them to the next performing arts level.</p>
<p>Drama 20</p>	<p>Prerequisite: Drama 10</p>

<p>(grade 10/11)</p> <p>5 credits</p>	<p>Theatre Styles and Performance: Drama 20 places a high regard on theatre professionalism and ensemble work through inspired learning modules including an exploration into theatre styles, advanced scene study and character development. Students will also participate in an intensive improvisation workshop, have an introduction to technical theatre and attend at least one professional production. Each student will also prepare a contemporary monologue that will be used for casting the students as performers in the Drama 30 directing projects.</p>
<p>Drama 30 (grade 12)</p> <p>5 credits</p>	<p>Prerequisite: Drama 20</p> <p>Drama 30 aims to incorporate all dramatic discoveries learned to date while preparing the student for an ultimate directing project. Students will select, plan, organize, cast and direct a professional one-act play to be performed for an invited audience. Extra evening and weekend hours may be required to prepare for this event. Additional concepts explored in Drama 30 include theatre styles, The Rhythm Project, technical theatre workshop, professional theatre audition for a panel of Calgary’s finest theatre artists. They will also attend live professional theatrical productions to help inspire their directorial vision.</p>
<p>Technical Theatre 15/25/35 (grade 10/11/12)</p> <p>3 credits</p>	<p>Prerequisite: None</p> <p>This course is a practical application of such disciplines as costume, make-up, lighting, stage management, properties, set, and sound. While any one component may be a focus, students in Technical Theatre 15/25 are expected to have 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.</p>
<p>Ukulele and Guitar 15 (grade 10/11/12)</p> <p>3 credits</p>	<p>Prerequisite: None</p> <p>Ukulele/Guitar 15 will introduce students to the basics of playing. The course will cover parts of the instrument, tuning, changing strings, open chords, major/minor scales, finger picking, flat picking, jamming, composing, song structure, music history/appreciation, singing and playing together, reading tablature, Garage Band and bar chords.</p>
<p>Instrumental Music (Band & Strings) (Grade 10, 11 & 12)</p> <p>10 credits each</p> <p>Full Year Course</p>	<p>Prerequisite: Instrumental Music Grade 9 or by Audition</p> <p>Instrumental Music 10/ 15 develops the young musician’s ear, theory skills, understanding of music history through a focus on performance. Students participate in a large ensemble, small group and/or private instruction with performance tours and recording sessions.</p> <p>Instrumental Music 20/ 25 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>Instrumental Music 30/ 35 – 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</p>

	<p>recording sessions.</p> <p>These courses are scheduled outside the timetable. The course runs on 2 Thursday mornings per month from 7:40 am until 8:30 am, every Thursday morning from 7:05 am until 8:30 am, and on Friday from 2:00 pm until 3:15 pm. Next year the ensemble is scheduled to perform at the National MusicFest Canada Festival.</p>
<p>Instrumental Jazz (Grade 10, 11 & 12)</p> <p>5 credits each</p> <p>Full Year Course</p>	<p>Recommended Co-requisite: Instrumental Music 10/20/30 or by Audition</p> <p>Instrumental Jazz 15 focuses on basic jazz techniques and styles of the jazz idiom including blues, swing and Latin genres. Students participate in both Big Band and combo performance.</p> <p>Instrumental Jazz 25 students learn intermediate technique in performance and improvisation in swing, rock, bebop, funk, Latin and blue styles. Students participate in Big Band and Combo opportunities.</p> <p>Instrumental Jazz 35 – Focus on improvisation in large group and combo formats, development of jazz theory, history and aural skills and understanding.</p> <p>These courses are scheduled twice per week during lunch.</p>

Second Languages

Course Name	Description
French 10 - 3 Year (grade 10/11/12)	Prerequisite: None This NEW course is for anyone that has missed the opportunity to take a French 9 year course and wish to learn a second language and explore Francophone cultures. French is the ideal for students wishing to travel, work in government to work internationally after school/ Students will engage in reading, speaking, writing and listening activities. By the end of French 10, student should be able to express themselves in basic situations about a variety of topics such as school, family, friends and hobbies. Based on numbers and success of the course French 20 (3yr) and 30 (3yr) may be offered in future years.
French 10 9 - Year (grade 10/11/12) 5 credits	Prerequisite: French 9 (9-year) or French 13 In French 10, students will learn to express themselves in regards to their favourite activities, shopping, vacation and the Fine Arts in French-speaking countries. In depth projects will be done on the seven areas of fine art as well as the culture of Francophone countries around the world. Students will complete their first film study and work on a classic French Novel. Recurring activities will be decided based on the interests of the class. Ters could include song activities, art projects, games and/or debates
French 20 - 9 Year (grade 10/11/12) 5 credits	Prerequisite: French 10 (9-year) In French 20, students will engage in various language activities with a focus on emotions, feelings, relationships, the outdoors and the workplace,. By the end of French 20 students should be able to express themselves proficiently both written and orally. there will be a film and classic novel study as well as weekly recurring activities based on the interests of the class, These could include song activities, mock-interviews, games and/or debates
French 30 - 9 Year (grade 10/11/12) 5 credits	Prerequisite: French 20 (9-year) This is the last course offered in the French 9-year program. By the end of the course, students will be able to freely express themselves in an impressive array of topic, situations and verbal tenses. The focus of French 30 is work,. travel, tourism, the role of the media and the environment. We will do an in depth novel and film study on French classics. ACtivities will be largely based on the needs and interests of the students, especially if it is required for future job positions or academic purposes
Spanish 10 - 6 Year (grade 10/11/12) 5 credits	Prerequisite: Spanish 9 (6-year) 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.

<p>Spanish 20 - 6 Year (grade 10/11/12)</p> <p>5 credits</p>	<p>Prerequisite: Spanish 10 (6-year)</p> <p>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.</p>
<p>Spanish 30 - 6 Year (grade 10/11/12)</p> <p>5 credits</p>	<p>Prerequisite: Spanish 20 (6-year)</p> <p>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.</p>

Career and Technology Studies (CTS)

Course Name	Description
<p>ADST 10 Flex</p> <p>1-3 credits</p>	<p>Prerequisite: None</p> <p>This course allows students to investigate and pursue credits in any CTS module not currently bundled in other Westmount Courses, or design a personal non-credited learning plan in an area of their own choosing. Students will be expected to complete the requirements for COM1255 – Learning Management Systems & eLearning as part of their learning plan.</p>
<p>Communication Technology 1</p> <p>5 credits</p>	<p>Prerequisite: None</p> <p>This is an introductory course that offers students the opportunity to explore digital photography/imaging, audio/video production, animation and digital design. Students entering the course will explore media through an introductory module Media & You (COM1020) wherein they are provided with a hands-on introduction to the various segments of communication studies. The course will be supplemented by guest speakers and instructors during specific modules. Students will acquire a basic understanding of digital media and become competent with several high profile software applications. These skills will allow students the opportunity to create work that incorporates an integrated 3D rendering, digital animation of figures and environments, digital photo manipulation and retouching, multimedia design and digital presentations.</p>
<p>Communication Technology 2</p> <p>5 credits</p>	<p>Prerequisite: 5 credits in ComTech 1</p> <p>In this intermediate course, students will focus on the knowledge, skills and attitudes that would apply in many sectors of the communications industry.</p>

	Students will expand on their study of photography, printing techniques and applications, audio/video production techniques and will use the computer as a significant production tool.
Communication Technology 3 3 to 5 credits	Prerequisite: 5 credits in ComTech 2 In this advanced level course, students will focus on the knowledge, skills and attitudes previously learned that would apply in many sectors of the communications industry. Students will continue to expand their study of photography, printing techniques and applications, audio/video production techniques and will use the computer as a significant production tool.
Computer Science Foundations 1 or 2 (grade 10/11/12) 3 to 5 credits	Prerequisite: None for Computer Science 1. Level 2 requires the completion of Level 1. This course is open to any student wishing to learn about computer programming. Students are required to have personal laptops on which they can code. They are required to progress through the codecademy.com in a language of their choosing. If the student has no previous programming experience they are encouraged to explore the Python programming language. Once the tutorials are completed the student is encouraged to attempt an individual design project or select another language to learn and explore. Students who select to do a design project are lead through industry standard Waterfall practices of documentation, planning, and progression with the instructor.
Learning Strategies *NEW 15/25/35 Credits 3-6	Prerequisite: None 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 foster individual growth to support learning in their overall school experience.
Medical Science (grades 10-12) 3 credits	Prerequisite: None The purpose of this course is to expose students to the applied scientific inquiry process as it relates to the field of medicine. The course is designed to help students understand and utilize the scientific method of approaching current societal medical challenges. Lastly, this course will serve as a method to help students identify areas of scientific interests so that they can better select appropriate 20 and 30 level high school science courses. There will be three modules to complete: Health Service Foundations, Mental Health and Wellness, and Advances in Medical Technology.
Outdoor Education	Prerequisite: None for OE 15, completion of OE 15 required to take

<p>15 & 25 (grade 10/11/12)</p> <p>3 credits each</p>	<p>OE 15 & 25</p> <p>Outdoor Education 15 & 25 is designed to introduce students to the wide variety of human powered outdoor recreational activities on land, snow and water that our geographical location has to offer. Term 1 students will have full day stand up paddleboarding and cross-country skiing field trips as well as a multitude of in class activities like bouldering, biking, backcountry cooking to name a few and the course will and the course will culminate with a 3 day ski touring trip into the Elk Lakes Alpine Club hut from Peter Lougheed. Term 2 students will experience full day cross country skiing, canoeing on the Bow River in town and from below the Ghost dam to Cochrane and culminate with a 3 day backpacking canoe/hiking trip to Kananaskis Country. 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 & 25 will be given 3 credits at the 15 level and they next time they take the course they will be given 3 credits at the 25 level. Since the course is always a mix of 15 and 25 level students, it is requested that they take the 25 level in the opposite term they took the 15 level so as not to repeat experiences.</p>
<p>Outdoor Education 35 *NEW (grade 11/12)</p> <p>3 credits</p>	<p>Prerequisite: Outdoor Education 25</p> <p>Students who have successfully completed both Outdoor Ed 15 & 25 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 would be 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>Sports Medicine *NEW (grades 10 –12) (3 credits)</p>	<p>Sports Medicine</p> <p>This Sport Medicine course will be taught in 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 to sports medicine and injury. For each module, special assignments related to sport medicine and exercise physiology will be performed.</p>
<p>Remote Responder I *NEW</p> <p>3 credits</p>	<p>Prerequisite: None</p> <p>Wilderness first responder is a grade 10 course which combines the CTS courses of First Aid/CPR & AED, First Responder 1, & Health Services Foundations. We also include content that customizes the course by adding data related treatment in remote settings. Upon successful completion of course objectives, and maintaining a B+ average, students will receive three high school credits and possibly a remote rescuer certificate.</p>