

## Course Descriptions Grade 11

### Core courses Grade 11

Course Name	Grade	Prerequisites	Description	Credits
<b>English 20-1</b>	11	English 10-1	The course is concerned with theoretical aspects of literature and the study of the various genre of literature. Major papers are required that explore understanding and appreciation of literature from a critical perspective.	5
<b>English 20-2</b>	11	English 10-2 or English 10-1	This course exposes the student to a variety of communication forms within the six language arts, explores Canadian content, improves the student's writing, and improves speaking and listening skills through the study of various genres of literature.	5
<b>Social Studies 20-1</b>	11	Social Studies 10-1	Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influences of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada.	5
<b>Social Studies 20-2</b>	11	Social Studies 10-1 or Social Studies 10-2	Students will examine historical and contemporary understandings of nationalism in Canada and the world. They will explore the origins of nationalism as well as the impacts of nationalism on individuals and communities in Canada and other locations. Examples of nationalism, ultranationalism, supranationalism and internationalism will be examined from multiple perspectives. Students will develop personal and civic responses to emergent issues related to nationalism.	5
<b>Math 20-1</b>	11	Math 10C	Prerequisite: Math 10C. Required for: Math 30-1 or 30-2. This course continues the -1 sequence and is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into postsecondary programs that require the study of calculus. The general outcomes in Mathematics 20-1 include: Algebraic reasoning and number sense, Trigonometric reasoning, Algebraic and graphical reasoning through the study of relations.	5

<b>Math 20-2</b>	11	Math 10C	Prerequisite: Math 10C. Required for: Mathematics 30-2 or 30-3. This course continues the -2 sequence and is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of calculus. The general outcomes in Mathematics 20-2 include: Spatial sense and proportional reasoning, Number sense and logical reasoning, Statistical reasoning, Algebraic and graphical reasoning through the study of relations, Appreciation of the role of mathematics in society.	5
<b>Math 20-3</b>	11	Math 10C or Math 10-3	This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. The general outcomes in Mathematics 20-3 include: Spatial sense through direct and indirect measurement, Number sense and critical thinking skills, Algebraic reasoning, Statistical reasoning.	5
<b>Biology 20</b>	11	Science 10	This academic program explores the interactions of living systems with one another and with their environment. The program emphasizes the context of science by considering the interrelationships among science, technology and society. In Biology 20, the underlying theme is energy and matter exchange. The four topics covered are: <ul style="list-style-type: none"> <li>o Energy and Matter Exchange in the Biosphere</li> <li>o Ecosystems and Population Change</li> <li>o Photosynthesis and Cellular Respiration</li> <li>o Human Systems.</li> </ul>	5
<b>Physics 20</b>	11	Science 10	This academic program is designed to study matter and energy and their interactions. The program emphasizes the context of science by considering the interrelationship among science, technology and society. Physics 20-30 helps students understand the physics principles behind the natural events they experience and the technology they use in their daily lives. Physics 20 consists of four units of study: <ul style="list-style-type: none"> <li>• A. Kinematics</li> <li>• B. Dynamics</li> <li>• C. Circular Motion, Work and Energy</li> <li>• D. Oscillatory Motion and Mechanical Waves</li> </ul>	5

<b>Chemistry 20</b>	11	Science 10	<p>This academic program is designed to study matter and its changes. The program emphasizes the context of science by considering the interrelationships among science, technology and society. Students, through the study of Chemistry 20-30, are given an opportunity to explore and understand the natural world and to become aware of the profound influence of chemistry on their lives. Chemistry 20 consists of four units of study:</p> <ul style="list-style-type: none"> <li>• A. The Diversity of Matter and Chemical Bonding</li> <li>• B. Forms of Matter: Gases</li> <li>• C. Matter as Solutions, Acids and Bases</li> <li>• D. Quantitative Relationships in Chemical Changes</li> </ul>	5
<b>Science 24</b>	11	Science 10 or Science 14	<p>This general program allows students to meet the credit requirements in science for an Alberta High School Diploma and also provides opportunities for transfer into the academic program. The focus is on helping students understand the scientific principles behind the natural events they experience and the technology they use in their lives. Science 24 consists of four units of study:</p> <ul style="list-style-type: none"> <li>• A. Applications of Matter and Chemical Change</li> <li>• B. Understanding Common Energy Conversion Systems</li> <li>• C. Disease Defence and Human Health</li> <li>• D. Motion, Change and Transportation Safety</li> </ul>	5
<b>Wellness Courses Grade 11</b>				
<b>Phys Ed 20</b>	11	Phys Ed 10	<p>Physical Education 20/30 is a continuation of Physical Education 10. Students will participate in a variety of individual and group activities both on and off campus. Off campus activities could include: Mountain Biking, Scuba Diving, Boulderling, Cross Country Skiing, Bubble Soccer, Golfing, and more! Please note attending field trips is an expectation of this course and will be used for assessment purposes. Students will have the opportunity to earn marks for physical activity outside of our class, volunteer work within the community, as well as creating their own game. This class is intended for students who love to be physically active and are working towards building their character and leadership skills. The goal is for the teacher to facilitate and the students are the leaders of the class.</p>	5

CALM/CTR	10		<p>This course involves the study of the following topics:</p> <p>Self-Management: Increase self-awareness through appraising and accepting strengths, talents, aptitudes and limitations. Build awareness of personal thinking processes and strategies.</p> <p>Well-being: Increase awareness that personal well-being is predominantly determined by one's lifestyle choices. Recognize the need to accept personal responsibility for decision making in attaining, maintaining and promoting optimal levels of well being.</p> <p>Relationships: Identify and explore the interaction that occurs within and between relationships. Explore issues within relationships and develop skills to adapt to required changes. Develop skills, attitudes and behaviors that promote effective relationships.</p> <p>Careers and the World of Work: Develop competencies required for effective career planning. Examine the relationship between career planning and lifestyle. Identify the requirements of a satisfying occupation within a personal framework.</p> <p>Independent Living: Develop conscious planning and decision making skills to make lifestyle choices that lead to personal satisfaction. Develop the skills and knowledge required to survive in the consumer market place.</p> <p>Human Sexuality: Develop an understanding and awareness of the dimensions of human sexuality within the perspective of the whole person. Develop an information base enabling responsible decisions about sexual behavior.</p>	5
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**CTS/Fine Arts/2nd Languages Courses Grade 11**

Course Name	Grade	Prerequisites	Description	Credits
<b>Aboriginal Studies 20</b>	11	Aboriginal Studies 10	<p>The course is based on perspectives and worldviews of Aboriginal peoples. It includes the study of traditions and history of Aboriginal peoples in Canada, and particularly in Alberta. Student learning outcomes provide opportunities to examine such topics as governmental structures, literature, the arts and the sciences. The Circle of Courage is used as a framework, is based on the medicine wheel and is intended to help youth live a resilient and healthy lifestyle. There are four quadrants in the circle: Belonging, Mastery, Generosity and Independence. Activities in the course are designed to help students from all backgrounds learn in a safe and fun environment.</p>	5

<b>Agriculture Master</b>	10,11,12		<p>Students in the Senior High Agriculture courses (10, 20, 30) will be involved in the planting, harvesting and maintenance of the school's garden. During the cold months, we will focus on growing plants indoors. Equine science (horses), animal care (cattle, sheep, goats) agricultural career options and food preparation will be other aspects of this course.</p> <p>A combination of the following CTS courses will be included in the Agriculture program (10, 20, 30 levels)</p> <ul style="list-style-type: none"> <li>Plant Propagation</li> <li>Gardening</li> <li>Landscaping (Levels 1 and 2)</li> <li>Greenhouse/nursery crops (Levels 1 and 2)</li> <li>Introduction to Animal Basics</li> <li>Equine (Levels 1 and 2)</li> <li>Livestock/Poultry (Levels 1 and 2)</li> <li>Agricultural Safety</li> <li>Integrated Pest Management</li> <li>Farm to Table (Foods lab)</li> </ul>	5
<b>Art 20</b>	11	Art 10	<p>Mentoring or share artistic knowledge with other artists in the studio. Develop and demonstrate advanced control of a repertoire of visual skills and techniques. A firm understanding of art and the creation of eight pieces of art work. Emphasis is placed on refining skill and styles through in depth studies and critical analysis that enables the artist to interpret and evaluate art. Studio experience focuses on personal themes of expression requiring appropriate media selection and knowledge. The opportunity to participate in exhibitions, critiques, guest artist visits, and field trips. Sketchbook activities and project activities are designed to stimulate creativity and focus on technical drawing/design skills.</p>	5
<b>CTS Independent Courses</b>	11,12		<p>Career and Technology Studies (CTS) is designed for high school students so they can independently explore their interests and career options. CTS offers students opportunities to develop self-discipline and time-management skills that can be applied in their daily lives, and to improve their employability following high school. Courses can be 3-credit or 5-credit, and they include: Forensic Studies, Psychology, Geography, Sociology and Indigenous Studies.</p>	5

<b>Communication Technology</b>	10,11,12		<p>ComTECH is a technology course designed to equip students with a variety of digital skills that will enable them to utilize technology for productivity and expression. This course provides engaging and meaningful technology-related experiences and empowers students to improve in all areas of their education in preparation for future professional careers.</p> <p>There are several paths that students can explore from graphic design, video and audio production, web site design and animation. ComTECH is all about flexibility and student choice, but you must also be willing to learn independently and try new things. Take a step into the world of digital creative freedom and expression in Communication Technology!</p>	5
<b>Drama 20</b>	11	Drama 10	<p>Theatre 20 further explores the plot based drama skills explored in Drama 10 through the introduction of character analysis and intermediate character work in a workshop setting.</p> <p>Improvisation and playwriting are also included in this course to help create a more personalized learning experience for the individual actor. Students will also assist with Tech Theatre elements such as; props, costumes and set.</p>	5
<b>Foods Studies Sr.</b>	10,11,12		<p>At the grade 10 level students begin with the basics of food preparation including food safety, sanitation, and proper equipment use. Students also have the opportunity to learn about nutritious snacks and appetizers, fast and convenient foods and contemporary baking. At the grade 11 level students sharpen their culinary and baking skills through courses such as fruits and vegetables, cakes and pastries, soups and sauces, and international cuisine. Foods 30 is an advanced cooking level. Students will sharpen their skills further with food presentation, creative baking, advanced soups and sauces, and regional cuisine. Also students will also get an opportunity to show case their talent by preparing food for their family and a community event.</p>	5
<b>French 20-3Y</b>	11	French 10-3Y	<p>This course is a continuation of French 10. Students will continue to develop their proficiency in understanding and producing French in all areas – listening, reading, writing, and speaking.</p>	5

<b>Industrial Ed. Senior</b>	10,11,12		In Industrial Ed. Senior, Students in Level 1 will gain an in-depth understanding of safe and effective woodworking practices to build furniture from solid wood. Students will become proficient in operating a wide variety of woodworking equipment and know basic wood joinery. In Level 2, students will further implement woodworking techniques to wood forming, joinery, and cabinet making. There is also opportunity to choose to learn basic metal fabrication/welding principles in level 20 or 30. In Industrial Ed. 30, students learn leg and rail furniture techniques, surface enhancement, tool maintenance, and often have the opportunity to make something of their own design/choosing. Throughout each course/level, students will develop understanding of construction, manufacturing, industry, technology, and trades based careers.	5
<b>Instr Music 20</b>	11	Instrumental Music 10	The purpose of the senior high band program is to engage students musically. This is facilitated through opportunities to continue to develop musicianship, and to refine one's qualities and abilities as a musician through things like performances, exposure to diverse and quality literature, aural and listening activities, and valuing and appreciating a variety of music, through the study and performance of a variety of repertoire. Further, it aims to equip students with the skills needed to continue with music in their post-secondary studies following high school.	5
<b>Outdoor Education Sr.</b>	10,11,12		<p>The Senior Outdoor and Environmental Education course will provide students with a skill set for safe and successful participation in outdoor activities in Kananaskis Country.</p> <p>A significant portion of this course will take place outdoors in the river valley behind the school, in the school garden and in Kananaskis Country (5 field trips if COVID-19 Restrictions allow). Activities will include hiking, cross country skiing, snowshoeing, fishing and outdoor games. Topics of study will include outdoor living skills (shelter building, fire starting, knife use), wilderness navigation, trip planning, boat safety, wilderness first aid and gardening. The Outdoor Education program will use a combination of the following courses depending on the grade level (10, 20, 30)</p> <ul style="list-style-type: none"> <li>Outdoor Survival Skills</li> <li>Outdoor Cooking Theory/Practice</li> <li>Angling and Fish Management Theory/Practice</li> <li>Wilderness Navigation</li> <li>Outdoor Excursion</li> <li>Boat Safety</li> <li>Plant Propagation (school garden)</li> </ul>	5

<b>Senior Photography</b>	10,11,12		Photography: Learn about exposure and composition and transform your snapshots into works of photographic art. Then refine and add to your repertoire as you go up the grades. No experience or personal camera is necessary; however, this course is designed for those with a serious interest in photography as a hobby or career. This course consists of 5 modules that are worth 1 credit each. Subjects include Black and White Photography, Portrait, Colour, Outdoor, Digital Editing, Printing and many more!	5
<b>Spanish Language &amp; Culture 20-3Y</b>	11	Spanish Language & Culture 10-3Y	The learning of Spanish, as any other language, develops awareness of, and sensitivity to, cultural and linguistic diversity. This fact, in addition to preserving cultural identity, is also a means of cultural enrichment and is the best means of fostering understanding and solidarity among peoples and countries. Furthermore, it gives individuals the opportunity to identify, question and challenge their own cultural assumptions, values and perspectives and to contribute positively to society. There is also significant evidence to suggest that learning another language contributes to the development of increased grammatical abilities in the first language and enhances cognitive functioning. Learning a second language increases the ability to conceptualize and to think abstractly; and it fosters more cognitive flexibility, greater divergent thinking, creativity and metalinguistic competence. Students will develop skills in listening, speaking, reading, and writing. The course stresses oral language skills and presents vocabulary likely to be needed by travels. Students will further develop the comprehension, vocabulary, grammar and speech necessary to communicate effectively.	5
<b>Sports Performance Master</b>	10,11,12		The Sports Performance Program has been developed to allow students with an interest in training for athletic competition the opportunity to do so in a school setting. Students will be expected to demonstrate outcomes as they relate to the study of current training principles, performance enhancement and evaluation, sports studies and personal development. Other topics of study include muscular and skeletal anatomy, injury management and nutrition for sports and wellness. The course will take place in two locations, in the classroom where we will learn the theories and principles behind training for athletic competition, and in the weight room where these theories and principles will be put into place.	5



Textiles Art and Design Sr.	10,11,12		<p>Textiles Art and Design combines a number of different textile skills including sewing, knitting, crochet, macrame, and embroidery. Students develop these skills to apply to a larger project. At the grade 10 level students begin with sewing fundamentals using basic seams and stitches, sewing equipment and tools, and fabric identification. Students also have the opportunity to learn about creating accessories, up-cycling materials, textiles art, and a choice project. At the grade 11 level, students sharpen their skills by learning more about accessories, specialty fabrics, surface embellishments, textiles art 2, and a choice project. At the grade 12 level students further their skills by delving into wearable art, specialty fabrics 2, textile art 3, and two choice projects.</p>	5
Volunteerism & Leadership	10,11,12		<p>In this option, students have the opportunity to examine the role of volunteers in a community, to perform as volunteers, and to evaluate their volunteering experience. This course will provide references and experience to help build resumes for future work experience and also in applying for scholarships.</p> <p>Students will spend considerable time out in the community completing their volunteer hours. Examples of opportunities for volunteering in the community include helping in Seniors Homes, snow removal programs, helping to organize and participate in local club initiatives such as the Young Leos or participating as a student representative on the town councils for Turner Valley and Black Diamond.</p> <p>In addition, students can get credit for their hours organizing and participating in extracurricular clubs at school such as Student Council, the Grad Planning Committee, and the Sustainability Club. Students will not be expected to participate in all of the above initiatives and are not limited to only these examples.</p> <p>They will also explore basic principles of leadership and evaluate their personal leadership characteristics and qualities. Students will develop a plan for their personal growth as a member of a leadership team and examine the various behaviors, skills and roles of team members that contribute to team effectiveness which will further their success as future citizens of our community and society.</p>	

**Off Campus Courses Grade 11**

<b>Work Experience</b> <b>Green Certificate</b> <b>Registered Apprentice</b>	10 to 12		Off-campus education is an experiential method of learning that integrates a senior high student's classroom studies with recognized on-the-job work experiences through Work Experience, Registered Apprenticeship and Green Certificate programs.	Minimum 3
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