

Course Descriptions Grade 12

Core Subjects Grade 12

Course Name	Grade	Prerequisites	Description	Credits
English 30-1	12	English 20-1 or English 30-2	The English 30-1 program is a critical thinking course which explores literary and philosophical texts with a view to broadening our awareness of the human condition. As a community of learners, we come together to explore and experience life - personally, vicariously and communally. Our texts are of both print and non-print varieties; it is an eclectic collection that encourages multi-level reflection and reaction. The genres of short story, literary essay, modern drama, poetry, Shakespearean drama, visual media, film study, and the novel are included. There is a clear expectation of conscientious involvement for all students. Many formal writing and reading tasks will be administered both as formative learning tools and as summative work to determine grades, but personal reflection is critical for personal growth and long-term retention. This is a Diploma course. Therefore, specific preparation for that style of examination will occur throughout the semester.	5
English 30-2	12	English 20-1 or English 20-2	A study of texts at varying sophistication levels to meet the needs of students who are more diverse in terms of aspirations and abilities. The course focuses on developing effective communication strategies and supporting students in enhancing their skills for text study and text creation. Completion requires writing the diploma exam.	5
Social Studies 30-1	12	Social Studies 20-1	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 emergent global issues.	5
Social Studies 30-2	12	Social Studies 20-2	Students will examine the origins, values and components of competing ideologies. They will explore multiple perspectives regarding relationships among individualism, liberalism, common good and collectivism. An examination of various political and economic systems will allow students to determine the viability of the values of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues.	5

Mathematics 30-1	12	Math 30-2 or Math 20-1	Pre-requisite: Math 20-1 This course 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 30-1 include: Trigonometric reasoning, Algebraic and graphical reasoning through the study of relations, Algebraic and numeric reasoning that involves combinatorics.	5
Mathematics 30-2	12	Math 20-1 or Math 20-2	Prerequisite: Math 20-1 or 20-2 This course 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 30-2 include: Logical reasoning, Critical thinking skills related to uncertainty, Algebraic and graphical reasoning through the study of relations, Appreciation of the role of mathematics in society.	5
Mathematics 30-3	12	Math 20-2 or Math 20-3	Prerequisite: Math 20-1, 20-2 or 20-3 This course 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 30-3 include: Spatial sense through direct and indirect measurement, Number sense and critical thinking skills, Critical thinking skills related to uncertainty, Algebraic reasoning, Statistical reasoning.	5
Mathematics 31 (Calculus)	12	Math 30-1	Prerequisite: Math 30-1 This course is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into mathematical post-secondary programs such as engineering, medicine, and sciences. The general outcomes in Mathematics 31 include: Limits and Rates of Change, Derivatives, Curve Sketching and Functions, Differential Equations, Integrals	5
Biology 30	12	Biology 20	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 30, the emphasis is on adaptation and change. The four topics covered are: Systems Regulating Change in Human Organisms Reproduction and Development Cells, Chromosomes and DNA Change in Populations and Communities. Completion of Biology 30 requires the writing of a provincial diploma examination. Biology 30 consists of four units of study: <ul style="list-style-type: none"> • A. Nervous and Endocrine Systems • B. Reproduction and Development • C. Cell Division, Genetics and Molecular Biology • D. Population and Community Dynamics 	5

Chemistry 30	12	Chem 20	<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 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. Completion of Chemistry 30 requires the writing of a provincial diploma examination. Chemistry 30 consists of four units of study:</p> <ul style="list-style-type: none"> • A. Thermochemical Changes • B. Electrochemical Changes • C. Chemical Changes of Organic Compounds • D. Chemical Equilibrium Focusing on Acid-Base Systems 	5
Physics 30	12	Physics 20	<p>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 30 helps students understand the physics principles behind the natural events they experience and the technology they use in their daily lives. Completion of Physics 30 requires the writing of a provincial diploma examination. Physics 30 consists of four units of study:</p> <ul style="list-style-type: none"> • A. Momentum and Impulse • B. Forces and Fields • C. Electromagnetic Radiation • D. Atomic Physics 	5
Wellness Courses Grade 12				
Phys Ed 30	12	Phys Ed 20	<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, Bouldering, 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, 11 or 12		<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 Grade 12

Course Name	Grade	Prerequisites	Description	Credits
Aboriginal Studies 12	12	Aboriginal Studies 20	<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, and 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

Agriculture Master	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"> Plant Propagation Gardening Landscaping (Levels 1 and 2) Greenhouse/nursery crops (Levels 1 and 2) Introduction to Animal Basics Equine (Levels 1 and 2) Livestock/Poultry (Levels 1 and 2) Agricultural Safety Integrated Pest Management Farm to Table (Foods lab) 	5
Art 30	12	Art 20	<p>Develop and demonstrate very advanced control of a repertoire of visual skills and techniques. A very strong understanding of art (conceptual and technical) and the creation of 8 pieces of art work. Students demonstrate comprehensive ability in art terminology, techniques, critical art analysis, and evaluation and interpretation skills. 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
Communication Technology	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

CTS Independent Courses	10,11,12		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.	5
Drama 30	12	Drama 20	This course builds on the skills learned in Theatre 10 and 20. It focuses more on character development and the deeper understanding of character portrayal on stage. There are Improvisational and Directing Elements included at this level. In addition, there is a chance to showcase performance skills through a variety of media, such as commercials, short films and news anchor opportunities that are available throughout the semester.	5
Foods Studies Sr.	10,11,12		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.	5
French 30-3Y	12	French 20-3Y	French 30-3Y (Prerequisite – French 20-3Y): This course is a continuation of French 20. Students will continue to develop their proficiency in understanding and producing French in all areas – listening, reading, writing, and speaking.	5

Industrial Ed. Senior	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
Instr Music 30	12	Instrumental Music 20	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

Outdoor Education Sr.	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. 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.</p> <p>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"> Outdoor Survival Skills Outdoor Cooking Theory/Practice Angling and Fish Management Theory/Practice Wilderness Navigation Outdoor Excursion Boat Safety Plant Propagation (school garden) 	5
Photography	10,11,12		<p>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!</p>	5

Spanish Language & Culture 30-3Y	12	Spanish Language & Culture 20-3Y	<p>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.</p> <p>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 culminate the study of grammar, idioms, and expressions needed for the study of literature and effective speech.</p>	5
Sports Performance Master	10,11,12		<p>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.</p>	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 12				
Work Experience Green Certificate Registered Apprentice	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