

WO Course Catalogue

CORE COURSES	
PEC 1999 Active Living 10	This is a 3 credit course. Students must attend for 3 one period blocks each week. Typically the course runs from 10 am -11 am. PREREQUISITE: None
PED0770 Career & Life Management	Explore the various steps of personal development, and equip yourself with the necessary skills to make healthy, well-informed decisions and choices throughout your life. PREREQUISITE: None
SCIENCES	
KAE1783 Science 10-4	Science 10-4 is a course in Alberta that focuses on developing and applying essential science skills, knowledge, and attitudes needed for everyday living at home, in the workplace, and in the community. K&E Science
SCN1288 Science 14	Science 14 is a pre-requisite course for Science 24 in Alberta, which leads to the achievement of a high school diploma. In this course, students learn about the properties of matter, energy, and living systems, and develop scientific literacy skills.
SCN1270 Science 10	Science 10 is a brief look into 4 sciences: chemistry, biology, physics and earth science.
KAE2783 Science 20-4	Science 20-4 is a Knowledge and Employability course in Alberta ¹² . It focuses on developing and applying essential science skills, knowledge, and attitudes needed for everyday living at home, in the workplace, and in the community. PREREQUISITE: Science 10-4
SCN2288 Science 24	Science 24 builds on the knowledge and skills learned in Science 14. Topics include chemical reactions, energy consumption, car safety, and biotechnology. PREREQUISITE: Science 14
SCN2270 Science 20	Science 20 is a course that consists of lessons organized into seven modules, including Chemical Foundations, Chemical Compounds, Behaviour of Gases, Properties of Solutions, Acids and Bases, Stoichiometry, and Chemical Analysis. PREREQUISITE: Science 10
SCN3270 Science 30	Science 30 in Alberta is an advanced high school science course that covers a wide range of scientific disciplines, focusing on human health, energy resources, chemical impacts, and electromagnetic energy. PREREQUISITE: Science 20
SCN2231 Biology 20	Biology 20 is an academic program that helps students develop

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	<p>knowledge and skills to better understand the world around them. This course focuses on understanding the biological principles behind the natural events they experience, human body systems, and the technology used in their daily life. PREREQUISITE Science 10</p>
SCN3230 Biology 30	<p>Biology 30 covers topics such as the nervous and endocrine systems, reproduction and development, cell division, genetics, molecular biology, and population and community dynamics. The course provides an opportunity to explore and understand the natural world and its profound influence on our lives. PREREQUISITE: Biology 20</p>
ENGLISH	
KAE1780 English Language Arts 10-4	K&E English Grade 10
KAE2780 English Language Arts 20-4	K&E English Grade 11 PREREQUISITE: ELA 10-4
KAE3780 English Language Arts 30-4	K&E English Grade 12 PREREQUISITE: 20-4
ELA1104 English Language Arts 10-2	English 10-2 engages with a variety of texts, including those that have practical applications and draw from daily life experiences.
ELA2104 English Language Arts 20-2	English 20-2 engages with a variety of texts, including those that have practical applications and draw from daily life experiences. PREREQUISITE: English 10-2
ELA3104 English Language Arts 30-2	English 30-2 engage with a variety of texts, including those that have practical applications and draw from daily life experiences. PREREQUISITE: English 20-2
ELA1105 English Language Arts 10-1	English 10-1 places emphasis on high-level critical and creative thinking, reading and writing.
ELA2105 English Language Arts 20-1	English 20-1 places emphasis on high-level critical and creative thinking, reading and writing. PREREQUISITE: English 10-1
ELA3105 English Language Arts 30-1	English 30-1 emphasizes high-level critical and creative thinking, reading and writing. PREREQUISITE: English 20-1
MATH	
KAE1782 Math 10-4	Knowledge and Employability Mathematics 10-4 students solve everyday problems involving numbers and percents; explore patterns, variables, expressions, and equations to solve problems;

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	<p>and solve problems involving estimation, measurement, and comparison of objects. Students use visualization and symmetry to explore objects, shapes, patterns, and designs; develop and apply a plan to collect, display, and analyze data and information; and connect mathematical ideas to their everyday lives. Students who have experienced challenges or difficulty with their skills will be provided with additional strategies for success in the Knowledge and Employability -4 course sequence.</p>
MAT1793 Math 10-3	<p>Mathematics 10-3 students solve linear and area measurement problems of 2-D shapes and 3-D objects using SI and imperial units. They use spatial reasoning to solve puzzles; solve problems involving right triangles and angles; solve unit pricing, currency exchange, and income problems; and manipulate formulas to solve problems. They also use scale factors and parallel and perpendicular lines to solve problems.</p>
MAT1782 Math 10-C	<p>Mathematics 10C students determine the surface area and volume of 3-D objects and use trigonometric ratios to solve problems involving right triangles. They simplify expressions that involve powers with integral and rational exponents and simplify or factor polynomial expressions. At this level, students also analyze linear relations, solve systems of linear equations, and solve problems related to both of these sets of skills.</p>
KAE2782 Math 20-4	<p>Knowledge and Employability Mathematics 20-4 students solve everyday problems involving numbers and percents and decide if the processes used are reasonable. They explore patterns, variables, and expressions, and interpret variables, equations, and relationships, to solve problems in practical situations. They estimate, measure, and compare objects; read and interpret scale drawings and maps; develop and apply a plan to collect, display, and analyze information; and use probability and statistics to make predictions and decisions. In most of their studies, Mathematics 20-4 students connect mathematical ideas to their everyday lives. Students who have experienced challenges or difficulty with their skills will be provided with additional strategies for success in the Knowledge and Employability -4 course sequence. PREREQUISITE: Math 10-4</p>
MAT2793 Math 20-3	<p>Mathematics 20-3 students solve surface area, volume, and capacity problems. They use primary trigonometry to solve problems involving two or three right triangles, and model and draw 3-D objects and their views to scale. They use numerical reasoning to solve puzzles; create and analyze personal budgets; use proportional reasoning, unit analysis, and manipulation of formulas to solve problems; and create and interpret graphs. Students use their understanding of slope and rate of change to interpret graphs.</p>

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	PREREQUISITE: Math 10-3
MAT2792 Math 20-2	<p>Mathematics 20-2 students use proportional reasoning to solve real-life problems involving 2-D shapes and 3-D objects. They use the properties of angles and triangles, including the sine and cosine laws, to solve problems; use reasoning to prove conjectures; use spatial reasoning to solve puzzles; and solve problems that involve radicals. They interpret statistical data, solve problems involving quadratics, and research and present a mathematical topic of their choice.</p> <p>PREREQUISITE: Math 10C</p>
MAT2791 Math 20-1	<p>Mathematics 20-1 students investigate arithmetic and geometric patterns and use the sine and cosine laws to solve problems involving triangles. They investigate the properties of radicals and rational expressions. Mathematics 20-1 students also analyze the characteristics of absolute value functions and quadratic functions, solve quadratic equations and systems of equations in various ways, and analyze the relationship between a function and its reciprocal.</p> <p>PREREQUISITE: Math 10C</p>
MAT3792 Math 30-2	<p>Mathematics 30-2 students use numerical and logical reasoning to solve puzzles and real-life problems about the probability of events occurring. They solve problems algebraically involving rational equations; investigate exponential, logarithmic, polynomial, and sinusoidal functions; and research and present a mathematical topic of their choice.</p> <p>PREREQUISITE: Math 20-2</p>
MAT3793 Math 30-3	<p>Mathematics 30-3 students investigate the limitations of measuring instruments, use trigonometry to solve problems involving triangles, and describe and illustrate properties of polygons. They investigate translations, rotations, reflections, and size changes of 2-D shapes or 3-D objects; they use logical reasoning to solve puzzles; and they solve various other problems involving financial situations, linear relations, and probability.</p> <p>PREREQUISITE: Math 20-3</p>
SOCIAL STUDIES	
KAE1781 Social Studies 10-4	K&E Social Studies Grade 10
SST1772 Social Studies 10-2	Students will examine globalization, the process by which the world is becoming increasingly connected and interdependent.
SST1771 Social Studies 10-1	Students will explore globalization, the process by which the world's citizens are becoming increasingly connected and interdependent.

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KAE2781 Social Studies 20-4	K&E Social Studies. PREREQUISITE: Social 10-4
SST2772 Social Studies 20-2	Students will examine historical and contemporary understandings of nationalism in Canada and the world. PREREQUISITE: Social 10-2
SST 2771 Social Studies 20-1	Students will explore the complexities of nationalism in Canadian and international contexts. PREREQUISITE: Social 10-1
SST3772 Social Studies 30-2	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. PREREQUISITE: Social 20-2
SST3771 Social Studies 30-1	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. PREREQUISITE: Social 20-2
OPTION Courses	
AGRICULTURE	
AGR1010 Introduction to Agriculture	Students explore and gain an understanding of the diversity and significance of agriculture. PREREQUISITE: None
AGR1040 Introduction to Animal Basics	Students learn to identify and demonstrate the basic steps of raising and caring for a domestic animal. Students gain an understanding of general care to ensure animal health. PREREQUISITE: None
AGR 3000 Agriculture Safety	AGR3000 - Agriculture Safety has been developed and designed by the Job Safety Skills Society as a credentialed safety course. Students are introduced to essential health and safety principles and practices that enable them to develop the necessary skills and positive attitude for everyday safe and healthy work/life activities... at home, on the job and in their community. This is a PREREQUISITE for other AGR classes.
BUSINESS	
MAM3010 The Business Organization	Students identify and describe organizational structures, management theories and organizations as working units. Students also explain their beliefs of what successful organizations might look like in the future. PREREQUISITE: None

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MAM3020 Business in the Canadian Economy	Students investigate and relate their knowledge of economics to how business decisions are made within the community, provincially, nationally and internationally. PREREQUISITE: None
MAM3030 Business in the Global Marketplace	Students examine the opportunities and challenges that confront business persons in establishing a global business operation. PREREQUISITE: None
MAM3040 Promotion -Sales Techniques	Students learn and demonstrate techniques for successful selling. PREREQUISITE: None
MAM3050 Distributing Good & Services	Students explore the channels of distribution and modes of transportation used to direct goods from the producer to the consumer. PREREQUISITE: None
SEWING	
FAS1030 Sewing Fundamentals	Students learn how to use and care for sewing and pressing equipment safely, and apply these skills during project assembly. PREREQUISITE: None
FAS1060 Creating Accessories 1	Students use basic sewing skills and techniques to construct a home or personal accessory. PREREQUISITE: Sewing Fundamentals
FAS2100 Sewing for Others	Students create a project for a client whose needs require special measuring, designing, fitting, construction techniques and/or use of resources. PREREQUISITE: FAS1030: Sewing Fundamentals
FAS2160 Creating Accessories 2	Students study and produce fashion accessories related to fashion. PREREQUISITE: FAS1060: Creating Accessories 1.
FORENSICS	
LDC2256 Forensic Studies 25	Forensic Studies 25 is a three-credit course intended for students interested in the use of basic scientific concepts and technologies to solve crimes. PREREQUISITE: a 10 level science (14 or 10)
LDC3256 Forensic Studies 25	Forensic Studies 35 is a three-credit course intended for students interested in the use of basic scientific concepts and technologies to solve crimes. PREREQUISITE: Forensics 25

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PSYCHOLOGY	
SSN2171 Personal Psychology 20	Personal Psychology 20 is designed to be an introduction to the field of study of Psychology. PREREQUISITE: None
SSN2172 General Psychology 20	General Psychology 20 is designed to provide you with a general background in psychology including the history of psychology and the principles of learning and thinking. You will also learn about stress and aggression, the influence of small groups the status of roles, and some insights regarding neurosis and psychosis. PREREQUISITE: None
LDC Psychology Abnormal 35	Students will gain a comprehensive understanding of current mental illnesses, DSM-5 criteria, treatments and prevalence in society. PREREQUISITES: Personal Psychology 20 or General Psychology
JOB PREP	
OTH1998 Work Experience 15	Credits: Earn 1, 3, 5, or 10 credits based on your logged work hours (1 credit per 25 hours). Remember, you can apply up to 15 work experience credits towards your high school diploma. PREREQUISITE: Workplace Safety Systems HCS3000 requirements.
OTH2998 Work Experience 25	Credits: Earn 1, 3, 5, or 10 credits based on your logged work hours (1 credit per 25 hours). Remember, you can apply up to 15 work experience credits towards your high school diploma. PREREQUISITE: Workplace Safety Systems HCS3000 requirements
OTH3998 Work Experience 35	Credits: Earn 1, 3, 5, or 10 credits based on your logged work hours (1 credit per 25 hours). Remember, you can apply up to 15 work experience credits towards your high school diploma. PREREQUISITE: Workplace Safety Systems HCS3000 requirements.
HCS3000 Workplace Safety Systems	Students gain the attitudes, knowledge and skills related to workplace health and safety and examine relevant legislation required in the workplace. PREREQUISITE: None
HCS3010 Workplace Safety Practices	Students explore workplace safety principles and practices, and apply these principles and practices to a variety of contexts. PREREQUISITE: HCS3000: Workplace Safety Systems
CTR1010 Job Preparation	Students develop successful employment search skills and a personal employment search portfolio.

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	PREREQUISITE: None
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