



<b>Course Overview</b>	Knowledge and Employability science provides basic science literacy. The courses promote awareness, understanding and the development and application of science skills, knowledge and attitudes for successful living at home, in the workplace and in the community.										
<b>Prerequisite</b>	<i>Please refer to Alberta Education's Provincially Authorized Senior High School Courses and Course Codes Document</i>										
<b>Required Materials &amp; Resources</b>	<ul style="list-style-type: none"> <li>• Four integrated module/assignment booklets</li> <li>• Periodic table</li> </ul>										
<b>Learning Outcomes</b>	<p><b><i>Students will explore the following themes:</i></b></p> <p>A. Students extend their understanding of matter by investigating and classifying simple chemical reactions used at home and in the workplace. Students also become aware that many different materials can be created from a relatively small number of components and that technologies based on chemical change are widely used in producing useful materials for our daily use.</p> <p>B. Students investigate a variety of important energy conversions occurring in biological, chemical, physical and technological systems. Although energy appears in many forms and is essentially conserved, in each energy transformation the availability of useful energy decreases. Students learn that the technologies for extracting, processing and using fossil fuels involve converting energy into more useful forms for our use.</p> <p>C. The human organism as a living system is affected by a variety of environmental and genetic factors. Students investigate the nature of these factors, their effects on the health of the human organism and how social conditions and decisions play a role. Students learn about the body's natural defence systems and about medical techniques used to minimize the risk of exposure to environmental toxins and disease-causing agents. Although inheritance is well understood, minimizing genetic disorders is a complex issue, involving scientific, ethical and social perspectives.</p> <p>D. There is a greater risk of being injured or killed while travelling in a motor vehicle than when engaging in other common activities. Recognizing risk, governments and the transportation industry are working on new safety systems and practices designed to protect passengers. Students learn that these systems are based upon an understanding of the law of conservation of momentum.</p>										
<b>Note</b>	<b><i>Within Alternative Education all teachers are required to follow a common course outline and gradebook set up.</i></b>										
<b>Assessment</b>	<p>The student's grade is determined by the knowledge the student has acquired based on the program of studies and the skills the student is able to show in articulating his or her knowledge.</p> <p>The student's grade will be calculated based on the following:</p> <p><b>Coursework –25%</b></p> <p><b>Quizzes– 25%</b></p> <p><b>Midterm – 25%</b></p> <p><b>Final Exam – 25%</b></p>										
<b>Topics of Study</b>	<table border="0"> <thead> <tr> <th style="text-align: left;">MODULE</th> <th style="text-align: left;">TITLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Applications of Matter and Chemical Change</i></td> </tr> <tr> <td>2</td> <td><i>Understanding Common Energy Conversion Systems</i></td> </tr> <tr> <td>3</td> <td><i>Disease Defence and Human Health</i></td> </tr> <tr> <td>4</td> <td><i>Motion, Change and Transportation Safety</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Applications of Matter and Chemical Change</i>	2	<i>Understanding Common Energy Conversion Systems</i>	3	<i>Disease Defence and Human Health</i>	4	<i>Motion, Change and Transportation Safety</i>
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<b>An Important Note About Assessment</b>	A wide range of assessment information is used in the development of a student's final grade. Within Alternative Education, individualized assessments provide specific information regarding student progress and overall performance in the course. Student assessments may vary from student to student to adapt to differences in student needs, learning styles, preferences and paces. The teacher will apply best teaching practices to determine appropriate assessment.										

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**TEACHER'S CONTACT INFORMATION:**

<b>Teacher's Name:</b>	
<b>Teacher's Phone Number:</b>	
<b>Teacher's Email Address:</b>	