

<p>Course Overview</p>	<p>Science 20 consists of four units of study: A. Chemical Changes B. Changes in Motion C. The Changing Earth D. Changes in Living Systems</p>
<p>Prerequisite</p>	<p><i>Please refer to Alberta Education’s Provincially Authorized Senior High School Courses and Course Codes Document</i></p>
<p>Required Materials & Resources</p>	<ul style="list-style-type: none"> • Four Modules and Four Assignment Booklets • Textbook: Science 20 published by Alberta Education. • Textbook CD or the www.learnalberta.ca website. (User ID LA12 Password 2953)
<p>Learning Outcomes</p>	<p><i>The student will:</i></p> <ol style="list-style-type: none"> A. investigate aqueous solutions to determine conductivity and to calculate concentration B. explain oxidation, reduction and spontaneity and apply this knowledge to voltaic and electrolytic cells and to industrial processes C. describe the properties of simple hydrocarbons and describe hydrocarbon-based industrial processes that are important in Alberta D. describe one-dimensional motion of objects in terms of displacement, time, velocity and acceleration E. describe and analyze the law of conservation of momentum for one-dimensional collisions and change in momentum (impulse) to explain how force affects motion F. analyze the scientific evidence and explanations for geologic phenomena that occurred long ago or are taking place over a long period of time G. analyze and assess the evidence to explain the theory of plate tectonics and the internal structure of Earth H. analyze and assess the evidence provided by the fossil record of change in the environment and life forms over a period of 3.5 billion years I. analyze the evidence of, and assess the explanations for, natural variations in Earth’s climate over the last two million years. J. analyze ecosystems and ecological succession in the local area and describe the relationships and interactions among subsystems and components K. analyze and investigate the cycling of matter and the flow of energy through the biosphere and ecosystems as well as the interrelationship of society and the environment L. analyze and describe the adaptation of organisms to their environments, factors limiting natural populations, and evolutionary change in an ecological context
<p>Note</p>	<p><i>Within Alternative Education all teachers are required to follow a common course outline and gradebook set up.</i></p>
<p>Assessment</p>	<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>Coursework –25%</p> <p>Quizzes– 25%</p> <p>Midterm – 25%</p> <p>Final Exam – 25%</p>

Topics of Study	<table border="1"> <thead> <tr> <th data-bbox="282 58 440 92">MODULE</th> <th data-bbox="440 58 1511 92">TITLE</th> </tr> </thead> <tbody> <tr> <td data-bbox="282 92 440 126">1</td> <td data-bbox="440 92 1511 126"><i>Chemical Changes (Unit A)</i></td> </tr> <tr> <td data-bbox="282 126 440 159">2</td> <td data-bbox="440 126 1511 159"><i>Changes in Motion (Unit B)</i></td> </tr> <tr> <td data-bbox="282 159 440 193">3</td> <td data-bbox="440 159 1511 193"><i>The Changing Earth (Unit C)</i></td> </tr> <tr> <td data-bbox="282 193 440 222">4</td> <td data-bbox="440 193 1511 222"><i>Changes in Living Systems (Unit D)</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Chemical Changes (Unit A)</i>	2	<i>Changes in Motion (Unit B)</i>	3	<i>The Changing Earth (Unit C)</i>	4	<i>Changes in Living Systems (Unit D)</i>
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An Important Note About Assessment	<p>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.</p>										
TEACHER'S CONTACT INFORMATION:											
Teacher's Name:											
Teacher's Phone Number:											
Teacher's Email Address:											