



<b>Course Overview</b>	Physics 20 is composed of four units of study: A. Kinematics B. Dynamics C. Circular Motion, Work and Energy D. Oscillatory Motion and Mechanical Waves																		
<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 Modules and Eight Assignment Books</li> <li>• Media Reference Page</li> <li>• Textbook: Physics, Pearson, 2009</li> <li>• Students are also required to use the <a href="http://www.learnalberta.ca">www.learnalberta.ca</a> website. User ID LA12 Password 2953</li> </ul>																		
<b>Learning Outcomes</b>	<p><b>The student will:</b></p> <ul style="list-style-type: none"> <li>A. describe motion in terms of displacement, velocity, acceleration and time</li> <li>B. explain the effects of balanced and unbalanced forces on velocity</li> <li>C. explain that gravitational effects extend throughout the universe</li> <li>D. explain circular motion, using Newton's laws of motion</li> <li>E. explain that work is a transfer of energy and that conservation of energy in an isolated system is a fundamental physical concept</li> <li>F. describe the conditions that produce oscillatory motion</li> <li>G. describe the properties of mechanical waves and explain how mechanical waves transmit energy</li> </ul>																		
<b>Note</b>	<p><b><i>Within Alternative Education all teachers are required to follow a common course outline and gradebook set up.</i></b></p>																		
<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>Motion</i></td> </tr> <tr> <td>2</td> <td><i>Motion in Two Dimensions</i></td> </tr> <tr> <td>3</td> <td><i>Newton's Laws</i></td> </tr> <tr> <td>4</td> <td><i>Gravitation</i></td> </tr> <tr> <td>5</td> <td><i>Circular Motion</i></td> </tr> <tr> <td>6</td> <td><i>Work, Potential Energy and Kinetic Energy</i></td> </tr> <tr> <td>7</td> <td><i>Oscillatory Motion</i></td> </tr> <tr> <td>8</td> <td><i>Waves</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Motion</i>	2	<i>Motion in Two Dimensions</i>	3	<i>Newton's Laws</i>	4	<i>Gravitation</i>	5	<i>Circular Motion</i>	6	<i>Work, Potential Energy and Kinetic Energy</i>	7	<i>Oscillatory Motion</i>	8	<i>Waves</i>
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<b>An Important Note About Assessment</b>	<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>																		

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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>	