



**MATHEMATICS 20-2**

**MAT2792**

**5 Credit Course**

<b>Course Overview</b>	This course sequence 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. Topics include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics, and probability.																
<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>• Six Modules and Seven Assignment Books</li> <li>• Textbook – Principles of Mathematics 11 (Nelson)</li> <li>• Graphing scientific calculator</li> </ul>																
<b>Learning Outcomes</b>	<p><b><i>The student will develop:</i></b></p> <ul style="list-style-type: none"> <li>A. spatial sense and proportional reasoning</li> <li>B. spatial sense</li> <li>C. number sense and logical reasoning</li> <li>D. statistical reasoning</li> <li>E. algebraic and graphical reasoning through the study of relations</li> <li>F. an appreciation of the role of mathematics in society</li> </ul>																
<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="1"> <thead> <tr> <th>MODULE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Radicals</i></td> </tr> <tr> <td>2</td> <td><i>Quadratics</i></td> </tr> <tr> <td>3</td> <td><i>Logic and Reasoning</i></td> </tr> <tr> <td>4</td> <td><i>Geometry</i></td> </tr> <tr> <td>5</td> <td><i>Proportional Reasoning</i></td> </tr> <tr> <td>6</td> <td><i>Statistics</i></td> </tr> <tr> <td>7</td> <td><i>Project and Review</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Radicals</i>	2	<i>Quadratics</i>	3	<i>Logic and Reasoning</i>	4	<i>Geometry</i>	5	<i>Proportional Reasoning</i>	6	<i>Statistics</i>	7	<i>Project and Review</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.																

**TEACHER'S CONTACT INFORMATION:**

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