



**MATHEMATICS 20-1**

**MAT2791**

**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 entry into post-secondary programs that require the study of calculus. Topics include algebra and number; measurement; relations and functions; trigonometry; and permutations, combinations and binomial theorem.																
<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>• Seven Modules and Seven Assignment Books</li> <li>• Textbook – Pre-Calculus 11 (McGraw-Hill Ryerson)</li> <li>• Graphing scientific calculator</li> </ul>																
<b>Learning Outcomes</b>	<p><b>The student will develop:</b></p> <p>A. algebraic reasoning and number sense</p> <p>B. trigonometric reasoning</p> <p>C. algebraic and graphical reasoning through the study of relations</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="1"> <thead> <tr> <th>MODULE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Sequences and Series</i></td> </tr> <tr> <td>2</td> <td><i>Trigonometry</i></td> </tr> <tr> <td>3</td> <td><i>Quadratics</i></td> </tr> <tr> <td>4</td> <td><i>Radicals</i></td> </tr> <tr> <td>5</td> <td><i>Rational Expressions and Equations</i></td> </tr> <tr> <td>6</td> <td><i>Absolute Values and Reciprocals</i></td> </tr> <tr> <td>7</td> <td><i>Equations and Inequalities</i></td> </tr> </tbody> </table>	MODULE	TITLE	1	<i>Sequences and Series</i>	2	<i>Trigonometry</i>	3	<i>Quadratics</i>	4	<i>Radicals</i>	5	<i>Rational Expressions and Equations</i>	6	<i>Absolute Values and Reciprocals</i>	7	<i>Equations and Inequalities</i>
MODULE	TITLE																
1	<i>Sequences and Series</i>																
2	<i>Trigonometry</i>																
3	<i>Quadratics</i>																
4	<i>Radicals</i>																
5	<i>Rational Expressions and Equations</i>																
6	<i>Absolute Values and Reciprocals</i>																
7	<i>Equations and Inequalities</i>																
<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>	