



ALTERNATIVE EDUCATION

COURSE OUTLINE 2026-2027

MATHEMATICS 20-1

MAT2791

5 Credit Course

Prerequisite	A course mark of 50%, or higher in Mathematics 10C	
Required Materials & Resources	- Textbook: Precalculus 11 - Formula Sheet - Alberta Education Approved Graphing calculator	
Course Overview Math 20-1 consists of 7 units of study, as outlined below. The student’s <u>school-based</u> mark is weighted as follows:		
Units	Topic of Study	Weighting
Unit 1: Sequences & Series	Analyze arithmetic sequences and series to solve problems; Analyze geometric sequences and series to solve problems.	9%
Unit 2: Trigonometry	Demonstrate an understanding of angles in standard position; Solve problems, using the three primary trigonometric ratios for angles from 0° to 360° in standard position; Solve problems, using the cosine law and sine law, including the ambiguous case.	11%
Unit 3: Quadratics	Factor polynomial expressions of differing forms; Analyze quadratic functions in vertex form and general form and analyze the domain, range, vertex, axis of symmetry, x-y intercepts, and direction of opening; Solve problems that involve quadratic equations.	21%
Unit 4: Radicals	Solve problems that involve operations on radicals and radical expressions with numerical and variable radicands; Solve problems that involve operations on radicals and radical expressions with numerical and variable radicands; Solve problems that involve radical equations	11%
Unit 5: Rational Expressions	Determine equivalent forms of rational expressions; Perform operations on rational expressions; Solve problems that involve rational equations.	11%
Unit 6: Absolute Values & Reciprocals	Demonstrate an understanding of the absolute value of real numbers; Graph and analyze absolute value functions; Graph and analyze reciprocal functions	8%
Unit 7: System of Equations & Inequalities	Solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables; Solve problems that involve linear and quadratic inequalities in two variables; Solve problems that involve quadratic inequalities in one variable	9%
Final Exam (Common Summative Assessment)		20%
*Total		100%

Assessment	*The student's grade will be calculated as follows (within each unit of study):	
	Coursework-Modules	20%
	Quizzes, exams, labs, projects	80%
	• Alternative Education does not publish report cards. • Parents and students are encouraged to keep up to date on PowerSchool and contact their teacher if there are any issues. • Final Grade: ○ 80% School Awarded Mark + 20% Final Exam (Common Summative Assessment)	
Important note regarding assessment	A wide range of assessment information is used in the development of a student's final grade. In Edmonton Catholic Schools, individualized assessments provide specific information regarding student progress and overall performance in class. Assessment may vary from student to student, differentiating for various student needs. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.	