



AP Precalculus

Instructor: Chris Jacques

School Year: 2026-2027

Contact Information:

- chris_jacques@indianmountain.org
- Room E

Course Focus

AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for the study of mathematics, physics, biology, health science, social science, and data science. This course will be taught using an Experience First, Formalize Later (EFFL) learning model, where students work collaboratively to think, to discuss, and to construct their own understanding of new content before the teacher helps students to arrive at formal definitions and formulas.

In lieu of a traditional textbook, we will be using the AP Precalculus lessons at portal.mathmedic.com/lesson-plans/course/AP-Precalculus, along with the homework, quizzes, and tests available through the Math Medic Assessment Platform for AP Precalculus. The Math Medic lessons have been vetted by the College Board and meet the Course Audit curricular requirements.



Units Covered

Unit 1: Exploring Rates of Change

Unit 2: Polynomial and Rational Functions

Unit 3: Constructing Functions

Unit 4: Exponential Functions

Unit 5: Logarithmic Functions

Unit 6: Exploring Sine and Cosine Functions

Unit 7: Working with Trigonometric Functions

Unit 8: Polar Functions

Grading Percentage Breakdown

<u>Weight of Assignments</u>	<u>Grade Scale</u>			
25% - Homework	A+	100-97	C+	79-77
25% - Problem sets	A	96-93	C	76-73
45% -Assessments	A-	92-90	C-	72-70
5% - Class Participation	B+	89-87	D+	69-67
	B	86-83	D	66-63
	B-	82-80	D-	62-60