

Course Name: Honors Precalculus

Duration: 1 Semester Full Year

Grade Level: 9th 10th 11th 12th (check all that apply)

Are there any prerequisites for the course?

Completed Algebra 1, Geometry, and Algebra 2. Recommend to have completed Algebra 1 (7th grade), Geometry (8th grade) or Honors Geometry, and Honors Algebra 2.

WHAT this course is about:

Honors Pre-Calculus is designed to enhance various mathematical skills on a more in-depth level, in addition to preparing students for college mathematics and/or the rigors of Advanced Placement Calculus AB or BC.

WHY take this course:

This course will help prepare you for college level Calculus, whether as an AP course or in college.

WHAT you'll learn:

- Functions and Graphs
- Polynomial, Power, and Rational Functions
- Exponential, Logistic, and Logarithmic Functions
- Trigonometric Functions
- Analytic Trigonometry
- Applications of Trigonometry
- Sequences and Series
- Limits and Continuity
- Definition of a Derivative and Basic Differentiation

Demana Precalculus is our textbook, and we will use Khan Academy.

WHAT you'll do:

You will learn to connect multiple representations of concepts expressed graphically, numerically, analytically, and verbally. The connections between these representations are important.

You will learn to communicate mathematically. Not only to solve a problem but to properly justify and prove your answer.

You will have regular homework that will have select problems graded for accuracy.

WHERE this could take you:

Most students take AP Calculus BC after this course.

OPTIONAL Course Outline (“scope and sequence”, sequence chart, etc.)

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