



# PRECALCULUS 41

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Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

## COURSE DESCRIPTION

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Precalculus 41 provides an accelerated in-depth treatment of trigonometric functions and their applications. This course includes polynomial, rational, logarithmic and exponential functions. Precalculus 41 includes an introduction to regression analysis, polar coordinates, vectors and parametric equations. In addition, the course also includes units on partial fraction decomposition, mathematical induction, and the binomial theorem. Precalculus 41 prepares students for AP Calculus.

## COURSE OBJECTIVES

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Students should:

- understand and describe patterns and functional relationships.
- represent and analyze quantitative relationships in a variety of ways.
- use operations, properties, and algebraic symbols to determine equivalence and solve problems.
- understand that a variety of numerical representations can be used to describe quantitative relationships.
- use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.
- use spatial reasoning, location and geometric relationships to solve problems.
- develop and apply units, systems, formulas and appropriate tools to estimate and measure.
- collect, organize and display data using appropriate statistical and graphical methods.
- understand and apply basic concepts of probability.

## UNITS OF STUDY

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- Defining and Analyzing Functions and Relations
- Trigonometric Functions
- Polar Coordinates
- Polynomial, Rational, Exponential and Logarithmic Functions and Equations
- Statistics
- Advanced Topics

## COURSE POLICIES AND REQUIREMENTS

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### GRADING

Summative Assessments:	Insert % Here (Minimum of 70%). Insert Categories/Weighting (ie. Papers – 30%)
Formative Assessments:	Insert % Here (Maximum of 30%). Insert Categories/Weighting (ie. Quizzes – 50%)
Behavioral Characteristics:	Insert % Here (Maximum of 10%) Insert Categories/Weighting (ie. Particip. - 90%)

Insert Additional Grading Information Here

**MATERIALS**

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

**EXPECTATIONS OF STUDENTS**

Insert Course Expectations Here

**EXTRA HELP**

Insert Course Expectations Here

Insert Additional Information Here