

# AP Precalculus

## Mrs. Dowling

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## Major Text

AP Precalculus (11th edition), Demana, Waits, Foley, Kennedy, Gorsuch and Phelps.

## Course Overview

AP Precalculus is a college level rigorous course to prepare students for college-level calculus.

## Prerequisites

Students should have completed Algebra 1, Geometry, and Algebra 2. Students should be familiar with functions including those that are linear, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric. In particular, before studying precalculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, periodic, zeros, intercepts, and so on) and know the values of the trigonometric functions of the numbers  $0$ ,  $\pi/6$ ,  $\pi/4$ ,  $\pi/3$ ,  $\pi/2$ , and their multiples.

## Course Outline and Description

Unit 1: Polynomial Functions Rational Functions

Unit 2: Rational Functions

Unit 3: Exponential Functions

Unit 4: Logarithmic Functions

Unit 5: Trig Functions

Unit 6: Polar Functions

Unit 7: Function Involving Parameters

Unit 8: Vectors

Unit 9: Matrices

## Course Assessment

*Nine Weeks Grade* = 60% (Tests) + 40% (Quizzes/Daily)

*1<sup>st</sup> Semester Grade* = (1<sup>st</sup> 9 weeks + 2<sup>nd</sup> 9 weeks)  $\div$  2 x 80% + Semester Exam x 20%

*2<sup>nd</sup> Semester Grade* = (3<sup>rd</sup> 9 weeks + 4<sup>th</sup> 9 weeks)  $\div$  2

# AP Precalculus

## Materials Required

1. TI-84 Plus or TI-84 Plus CE
  2. 3-ring binder
  3. Planner
  4. Notebook paper
  5. Pencils only
- \*\*Project supplies will be announced as needed

## Classroom Rules and Expectations

1. Bring your supplies to class every day.
2. Be on time, attentive and involved.
3. Be respectful to everyone.
4. Put all trash in the trash can as you leave the classroom.
5. No late work will be accepted

## Extra Help

Extra help is available before/after school by appointment.

## Make-up Work

1. All make-up work is to be completed within three days of returning to school. Please see me to schedule make-up tests and quizzes.
2. It is **your** responsibility to get make-up work. Please let me know if you have any questions.
3. NO late work will be accepted.