

# Grand Haven High School

## AP Precalculus

**Course Number:** E50 A and B

**Grade Level:** Freshmen, Sophomores, Juniors, Seniors

**Credits :** 1 credit

**Prerequisite Courses :** Successful completion of Honors Algebra II



### Course Description

AP Precalculus is the preparation for calculus. The study of the topics, concepts, and procedures of Precalculus deepens students' understanding of algebra and extends their ability to apply algebra concepts and procedures at higher conceptual levels, as a tool, and in the study of other subjects. The theory and applications of trigonometry and functions are developed in depth. New mathematical tools, such as vectors, matrices, and polar coordinates, are introduced, with an eye toward modeling and solving real-world problems. AP Precalculus is a recommended college preparatory class for students who wish to extend their mathematical skills and processes.

### Course Objectives

This course meets the requirements established by the College Entrance Examination Board and successful students are encouraged to take the Advanced Placement Precalculus test in May. Successful completion of the test could replace college algebra. The ability to communicate about reasoning mathematically and evaluate the mathematical reasoning of others will be stressed. A strong emphasis is placed on preparing the student for calculus. A graphing calculator is strongly recommended.

### Student Expectations

- \* Students are expected to be active participants in their education, including completion of all assigned work, and best effort on quizzes and tests.
- \* Students are expected to obtain a graphing calculator for this course, see teacher for suggested model. A notebook specific to math is also encouraged.
- \* Students are expected to utilize online resources/assignments including College Board, Web Assignments, Edpuzzle videos, Khan Academy, Desmos, and other resources.

### Communication

- \* Students are expected to regularly monitor their progress through the Parent Internet Viewer and teacher blog sites. Parents and students are encouraged to contact teachers through email or phone with any questions or concerns.
- \* The Math Lab is available before and after school, and during all lunches for additional help

### Grading Policy

Assessment for grades will occur in the following categories:

- Tests 60%
- Quizzes 25%
- Assignments 15%

The school's standard grading scale will be used to determine letter grades.

### Scope and Sequence

Chapter 1: Functions and Their Graphs

Chapter 2: Polynomial and Rational Functions

Chapter 3: Exponential and Logarithmic Functions

Chapter 4 & 6: Trigonometric Functions

Chapter 5: Analytic Trigonometry

Chapter 8: Sequence & Series

Chapter 7: Linear Systems and Matrices

Chapter 8: Probability

Chapter 6 & 9: Topics in Analytic Geometry

Chapter 11: Limits and an Introduction to Calculus

### Building Behavioral Expectations

***T.E.A.M. GH ... One Team, One Family, One Grand Haven. Be Kind. Always.***

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

***We are Always a TEAM in Buccaneer Country!***

**Together, Excellence, Accountability, Mindfulness ... GO BUCS**