



Grand Haven High School

AP Calculus BC

Course Number:
Grade Level: 9th-12th
Credits : 1 credit

Prerequisite Courses : Pre-Calculus



Course Description

This course will focus on students' understanding, execution, and justification of calculus concepts while using calculus big ideas to bring all previous courses to a cohesive whole. Learning approach will include graphically, numerically, analytically, and verbally expressing understanding. Use of technology, writing, projects, and exploration students will battle with how to reason and justify mathematical concepts.

Course Objectives

This course meets the requirements established by the College Entrance Examination Board and successful students are encouraged to take the Advanced Placement Calculus BC test in May. Successful completion of the BC test will replace the FIRST AND SECOND semester of college calculus.

Student Expectations

- * Students are expected to be active participants in their education, including completion of all assigned work, best effort on assessments, and seek additional help or resources when needed.
- * 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 multiple online resources to ensure understanding, including college board, edpuzzle, youtube videos, khan academy, along with other classroom resources.

Communication

- * Students are expected to regularly monitor their progress through the Parent Internet Viewer and teacher learning management 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

1st Semester:

Unit 1: Limits and Continuity
Unit 2 & 3: Differentiation
Unit 4 & 5: Applications of Differentiation
Unit 6: Integration
Unit 7: Differential Equations

2nd Semester

Unit 7: Differential Equations
Unit 8: Applications of Integration
Unit 9: Parametric, Polar, and Vector Value
Unit 10: Infinite Sequence and Series

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