



Advanced Placement Calculus AB Grand Haven High School



Course Number: E70

Grade Level: 9th - 12th

Credits : 1 credit

Prerequisite Courses : Pre-Calculus

Course Description

This course involves the study of the calculus of a single variable. It begins with an intuitive treatment of differential and integral calculus in reference to trigonometric, algebraic, inverse and logarithmic functions. Applications to analytic geometry, maxima and minima, area and volume and other physical phenomena are studied. A graphing calculator is strongly recommended. .

Course Objectives

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

Student Expectations

The students are expected to come prepared to class everyday. This would include bringing a pencil, paper and folder for assignments and notes. It is highly recommended that the provide their own graphing calculator. The suggested graphing calculator is a TI-83 or TI-84.

Communication

Teachers for this course may maintain a blog or website to assist students in their learning. Teachers will also be available through email contact and phone. Teachers may also provide separate classroom expectations and guidelines.

Grading Policy

Test: 65%

Quizzes: 25%

Assignments: 10%

Building Behavioral Expectations

TEAM 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!

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Scope and Sequence

1st Semester:

Prerequisites for Calculus

Limits and Continuity

Derivatives

Applications of Derivatives

The Definite Integral

2nd Semester:

Differential Equations

Applications of Definite Integrals

Review for the Advanced Placement Exam

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