

# AP Calculus AB

## Course Overview:

The purpose of this course is to prepare students for the Calculus AB examination. To adequately prepare, most of the year will be devoted to the topics in differential and integral calculus described in the College Board Calculus Course Description. An AP course in calculus is comparable to calculus courses in colleges and universities. A graphing calculator is required for this course. This course meets NCAA eligibility requirements. A weighted grading scale will be applied. Participation in the AP exam is a requirement of the course and an exam cost of approximately \$90.00 is the responsibility of each enrolled student. Free and reduced lunch students may apply for fee waivers for the AP exam. See your counselor for more information.

## Text Books:

## Assessments:

A variety of assessments will be given, with many modeling the AP exam in order to prepare students for successful completion of the exam.

## First Quarter:

### Standards/Learning Goals:

- Unit 1: A review of functions
- Unit 2: Limits and Continuity
- Unit 3: Introduction to Differentiation

## Second Quarter:

### Standards/Learning Goals:

- Unit 3: Introduction to Differentiation
- Unit 4: Applications of Differentiation
- Unit 5: Integration

## Third Quarter:

### Standards/Learning Goals:

- Unit 5: Integration
- Unit 6: Areas and Volumes
- Unit 7: Differential Equations

## Fourth Quarter:

### Standards/Learning Goals:

- Unit 7: Differential Equations
- AP Exam Review
- Further Study