



AP CALCULUS BC

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

Advanced Placement Calculus BC consists of a full year of college calculus.

This course is intended for students who have demonstrated exceptional ability and achievement in mathematics, and have successfully completed an accelerated program. To be successful, students must be motivated learners who have mathematical intuition, a solid background in the topics studied in previous courses and the persistence to grapple with complex problems.

Students in the course are expected to take the Advanced Placement exam in May, at a fee, for credit and/or placement consideration by those colleges which accept AP credit. In addition, by virtue of our affiliation with the University of Connecticut's ECE Program, students can apply for 8 college credits for Math 115Q and Math 116Q at the University of Connecticut.

Included in the course of study will be:

- Functions, graphs and limits
- Differential calculus (the derivative and its applications)
- Integral calculus (antiderivatives and their applications)
- Polynomial Approximations and Series

COURSE OBJECTIVES

Students should:

- understand and describe patterns and functional relationships.
- represent and analyze quantitative relationships in a variety of ways.
- use operations, properties, and algebraic symbols to determine equivalence and solve problems.
- use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.
- use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.
- develop and apply units, systems, formulas and appropriate tools to estimate and measure.
- use spatial reasoning, location and geometric relationships to solve problems.

UNITS OF STUDY

- Functions, Graphs, and Limits
- Derivatives
- Integrals
- Polynomial Approximations and Series

COURSE POLICIES AND REQUIREMENTS

GRADING

Summative Assessments: Insert % Here (Minimum of 70%).
Insert Categories/Weighting (ie. Papers – 30%)
Formative Assessments: Insert % Here (Maximum of 30%).
Insert Categories/Weighting (ie. Quizzes – 50%)
Behavioral Characteristics: Insert % Here (Maximum of 10%)
Insert Categories/Weighting (ie. Particip. - 90%)
Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

Insert Course Expectations Here

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here