



Fairfield Ludlowe High School - Fairfield Warde High School

AP CALCULUS BC

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

This 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. Included in the course of study will be:

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

Students in the course are expected to take the Advanced Placement exam in May.

COURSE ENDURING UNDERSTANDINGS

Students should understand and apply the:

- Formal definitions and graphical interpretations of limits and continuity
- Formal definition, application and properties of a derivative.
- Formal definition, application and properties of an integral.
- Interpretation and creation of Series representation and polynomial approximations.

UNITS OF STUDY

- Functions, Graphs, and Limits
- Derivatives
- Applications of Derivatives
- Integrals
- Applications of Integrals
- Polynomial Approximations and Series Parametrics, Vectors and Polar Functions

COURSE POLICIES AND REQUIREMENTS

GRADING (see FPS BOE [Policy 6146.1AR](#))

Cumulative/In-Progress Grade:

- 10% of the grade will be based on formative assessments, homework completion, and behavior .
- 90% will be based on summative assessments, of which there will be a minimum of eight, with no fewer than 2 per quarter, for this full-year course; these may include Unit Tests, Mid-Unit Tests, Projects, Performance tasks, Summative Quizzes, etc.

End-of-the-Year Grade:

- 80% of the overall course grade will reflect the student's mastery of course content and skills during the school year through the Cumulative/In-Progress Grade.
- 10% of the End-of-the-Year course grade will be based on the Mid-Year Assessment.
- 10% of the End-of-the-Year course grade will be based on the Final Assessment. **Students that register and take the AP Exam are exempt from the FPS Final Assessment.**

Grade Reporting

- All grades will be communicated through Infinite Campus.
- Summative assessment results will be reported back to the student within ten school days from the date of submission or the due date, whichever is later.
- Formative assessment results will be reported back to the student within five school days from the date of submission or the due date, whichever is later and prior to any subsequent assessment..

Guidelines for Late Work:

- Late work will be accepted for both summative and formative tasks within a defined timeline agreed upon between the student and the teacher for excused absences.
- The total points may be reduced as a penalty for late work for unexcused absences. Students will earn a zero (0) if the assignment is not submitted or is submitted after the deadline for late work.

Reassessments:

- Any extenuating circumstances may be discussed with administration to allow alternative reassessment opportunities with administrative approval.
- Reassessment opportunities are defined as twice per year (with a maximum of one per quarter) for assignments that students met the original required deadlines and do not violate the academic integrity policy. Reassessment does not apply to midyear assessments or final assessments.
- Gradebook impact of Reassessment: original and reassessment scores will be averaged in the gradebook.

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)