Benefits of the AP Program

AP provides students the opportunity to take university- level classes while still in high school.

AP courses develop college level academic skills by digging deeper into subjects, requiring students to hone their time management and study skills while tapping into their creativity and problem-solving skills.

College credit is awarded if the student passes the AP exam with a 3 or higher.

AP credits are accepted internationally. Always check with potential colleges prior to taking classes.

AP courses stand out in the college admission process because they demonstrate academic rigor.

AP Scholar Granted to students who receive scores of 3 or higher on three or more AP Exams.

AP Seminar and Research Certificate is granted to students who earn scores of 3 or higher in both AP Seminar and AP Research.

AP Capstone Diploma is awarded to student who earn scores of 3 or higher in AP Seminar and AP research and four additional AP exams of their choosing.

AP Offers additional quality points in the weighted GPA

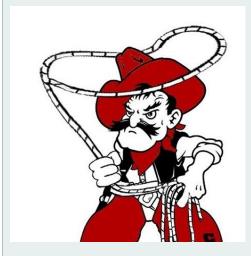
Passing score on AP US History or AP Government exam may be used to meet the new Civics graduation requirement.

Cooper City High School

9401 Stirling Rd Cooper City, FL 33328 (754) 323-0200

Colors: Black, White, Red Founded: September 1971 Mascot: Cowboy Pete

Motto: "Home of the Cowbovs"



With Cowboy Pride!

Vera Perkovic Principal

Cooper City High School Excellence. Tradition. Pride.
Twitter: @Principal CCHS



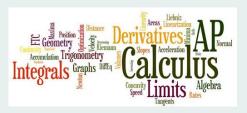
December 8, 2021

Cooper City High School Presents...

AP Information Night



AP Calculus AB AP Calculus BC

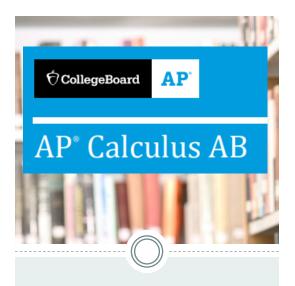


Presented by

Ms. Michelle Harding

Mathematics Teacher
michelle.harding@browardschools.com





AP Calculus Program AP Calculus AB and AP Calculus BC focus on students' understanding of calculus concepts and provide experience with methods and applications.

The courses feature a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally.

Graphing Calculator Capabilities for the Exams

A graphing calculator appropriate for use on the exams is expected to have the built-in capability to:

- ♦ plot the graph of a function within an arbitrary viewing window
- ♦ find the zeros of functions (solve equations numerically)
- \blacklozenge numerically calculate the derivative of a function
- ♦ numerically calculate the value of a definite integral

AP Calculus Course Content

The course content is organized into eight commonly taught units, which have been arranged in the following suggested, logical sequence:

AB and BC

- ☐ Unit 1: Limits and Continuity
- $\hfill\square$ Unit 2: Differentiation: Definition and

Fundamental Properties

☐ Unit 3: Differentiation: Composite, Im-

plicit, and Inverse Functions

 \square Unit 4: Contextual Applications of Differ-

entiation

 \square Unit 5: Analytical Applications of Differ-

entiation

- ☐ Unit 6: Integration and Accumulation of Change
- ☐ Unit 7: Differential Equations
- ☐ Unit 8: Applications of Integration

BC ONLY

- ☐ Unit 9: Parametric Equations, Polar Coordinates, and Vector Valued Functions
- \square Unit 10: Infinite Sequences and Series

Find
$$\int \left(2 + 5x - \frac{1}{(x-2)^2}\right) dx$$

PREREQUISITES

Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students: courses that should prepare them with a strong foundation in reasoning with algebraic symbols and working with algebraic structures.

Prospective calculus students should take courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions.

Assessment Overview

The AP Calculus BC Exam assesses student understanding of the mathematical practices and learning objectives outlined in the course framework.

The exam is 3 hours and 15 minutes long and includes 45 multiple-choice questions and 6 free-response questions.

Sign In to AP Classroom

You need a College Board student account to log into My AP and access AP Classroom. You can also find the quizzes, tests and videos your teacher has assigned to you here. You may already have an account, from registering for SAT tests and viewing AP scores.