StudyForge
DIGITAL CURRICULUM

AP Calculus AB

Type: Online

Course Description:

This award-winning AP Calculus course is an immersion into calculus, giving students a taste of college with the comfort of high school. AP Calculus AB goes over the first semester of University Calculus (Calc 1) and students will have the option to complete the AP Exam administered by the College Board and receive university credit. This course is designed to cover the equivalent of one semester of college calculus over the span of a year. AP Calculus AB covers derivatives, definite integrals and the fundamental theorem of calculus.

Within this course, students are led through the historical journey of the discovery and development of calculus. Each lesson involves interactive videos that allow students to go at their own speed, with the ability to pause and rewind at any point. With student-friendly note packages and practice questions with detailed solutions, students will never get stuck and can learn how to solve even the most challenging calculus problems. Students can also retake every quiz and test to encourage them to strive towards mastery.

Note: AP Calculus AB only differs from AP Calculus BC in scope, not difficulty. For more information on the additional topics covered in AP Calculus BC, click here.

Major Units and Topics:

- Functions (Review)
- Limits
- Derivatives
- Applications of Derivatives

- Integrals
- Applications of Integrals
- Differential Equations

Assessments:

- Video Notes
- Practice Questions
- Quizzes and Tests

- Review Assignments
- Practice Tests
- AP activities and explorations

Student Requirements:

- An approved Collegeboard graphing calculator - DESMOS Calculator included with StudyForge course
- Having an additional handheld scientific calculator

Learning Standards Overview:

This course fully covers the topics described in the College Board AP Calculus BC Course and Exam Description.