StudyForge
DIGITAL CURRICULUM

AP Calculus BC

Type: Online

Course Description:

AP Calculus BC covers the first two semesters of University Calculus (Calc 1 and Calc 2). It includes the topics covered in our AP Calculus AB course with the addition of parametric functions, polar functions, vector functions and analysis of series. Students will have the option to complete the AP Exam administered by the College Board and receive university credit.

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

Major Units and Topics:

- Functions (Review)
- Limits
- Derivatives
- Applications of Derivatives
- Integrals
- Applications of Integrals
- Differential Equations
- Analytic Geometry
- Series and Convergence
- Polynomial Series and Approximations

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.