AP Calculus Pacing Guide

Calculus is designed for students interested in STEM-based careers and builds on the concepts studied in precalculus. The study of calculus on the high school level includes a study of limits, derivatives, and an introduction to integrals.

Quarter 1
Limits of Functions
-Understand the concept of the limit of a function.
Behavior of Functions
-Describe the asymptotic and unbounded behavior of functions.
Continuity
-Develop an understanding of continuity as a property of functions.

Quarter 2
Understand the Concept of the Derivative
-Demonstrate an understanding of the derivative.
-Understand the derivative at a point.
Computing and Applying Derivatives
-Apply differentiation techniques.

Quarter 3
Computing and Applying Derivatives
-Use first and second derivatives to analyze a function.
-Apply derivatives to solve problems.
Understanding Integrals
-Demonstrate understanding of a definite integral.

Quarter 4
Understanding Integrals
-Understand and apply the Fundamental Theorem of Calculus.
Calculate and Apply Integrals
-Apply techniques of antidifferentiation.
-Apply integrals to solve problems.