AP Calculus Curriculum Sequence

Chapter 2 - Limits and Continuity
Section 2.1 Rates of Change and Limits
Section 2.2 Limits Involving Infinity
Section 2.3 Continuity
Section 2.4 Rates of Change and Tangent Lines

Chapter 3 - Derivatives
Section 3.1 Derivative of a Function
Section 3.2 Differentiability
Section 3.3 Rules for Differentiation
Section 3.4 Velocity and Other Rates of Change
Section 3.5 Derivatives of Trigonometric Functions
Section 3.6 Chain Rule
Section 3.7 Implicit Differentiation
Section 3.8 Derivatives of Inverse Trig Functions
Section 3.9 Derivatives of Exponential and Log Functions

Chapter 4 – Applications of Derivatives
Section 4.1 Extreme Values of Functions
Section 4.2 Mean Value Theorem
Section 4.3 Connecting f' and f'' with the Graph of f
Section 4.4 Modeling and Optimizing
Section 4.6 Related Rates

Chapter 5 – The Definite Integral
Section 5.1 Estimating with Finite Sums
Section 5.2 Definite Integrals
Section 5.3 Definite Integrals and Antiderivatives
Section 5.4 Fundamental Theorem of Calculus
Section 5.5 Trapezoidal Rule

Chapter 6 – Differential Equations and Math Modeling
Section 6.1 Slope Fields and Euler's Method
Section 6.2 Antidifferentiation by Substitution
Section 6.4 Exponential Growth and Decay

Chapter 7 – Applications of Definite Integrals
Section 7.1 Integral as Net Change
Section 7.2 Areas in the Plane
Section 7.3 Volumes

Chapter 8 – Sequences, L'Hopital's Rule, and Improper Integrals
Section 8.2 L'Hopital's Rule