

AP CALCULUS AB, 2025 - 2026

Pacing (approximate)	Units	AP Exam Weighting
3 weeks	Unit 1	10-12%
3 weeks	Unit 2	10-12%
3 weeks	Unit 3	9-13%
3 weeks	Unit 4	10-15%
3 weeks	Unit 5	15-18%
3 weeks	Unit 6	17-20%
2.5 weeks	Unit 7	6-12%
4 weeks	Unit 8	10-15%
4 Weeks	Exam Review / Exam	
3 weeks	Activities	

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Exam Weighting for the Multiple-Choice Section of the AP Exam

Units	Exam Weighting (AB)	Exam Weighting (BC)
Unit 1: Limits and Continuity	10–12%	4–7%
Unit 2: Differentiation: Definition and Fundamental Properties	10–12%	4–7%
Unit 3: Differentiation: Composite, Implicit, and Inverse Functions	9–13%	4–7%
Unit 4: Contextual Applications of Differentiation	10–15%	6–9%
Unit 5: Analytical Applications of Differentiation	15–18%	8–11%
Unit 6: Integration and Accumulation of Change	17–20%	17–20%
Unit 7: Differential Equations	6–12%	6–9%
Unit 8: Applications of Integration	10–15%	6–9%
Unit 9: Parametric Equations, Polar Coordinates, and Vector-Valued Functions BC ONLY		11–12%
Unit 10: Infinite Sequences and Series BC ONLY		17–18%

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Course at a Glance

Plan

The Course at a Glance provides a useful visual organization of the AP Calculus AB and AP Calculus BC curricular components, including:

- Sequence of units, along with approximate weighting and suggested pacing. Please note, pacing is based on 45-minute class periods, meeting five days each week for a full academic year.
- Progression of topics within each unit.
- Spiraling of the big ideas and mathematical practices across units.

Teach

MATHEMATICAL PRACTICES
Mathematical practices spiral throughout the course.

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|--|-------------------------------------|
| 1 Implementing Mathematical Processes | 3 Justification |
| 2 Connecting Representations | 4 Communication and Notation |

BIG IDEAS
Big ideas spiral across topics and units.

- | | |
|-------------------|----------------------------------|
| CHA Change | FUN Analysis of Functions |
| LIM Limits | |

BC ONLY
The purple shading represents BC only content.

Assess

Assign the Personal Progress Checks—either as homework or in class—for each unit. Each Personal Progress Check contains formative multiple-choice and free-response questions. The feedback from the Personal Progress Checks shows students the areas where they need to focus.

UNIT 1		Limits and Continuity
AP EXAM WEIGHTING		10–12% AB 4–7% BC
CLASS PERIODS		~22–23 AB ~13–14 BC
CHA 2	1.1	Introducing Calculus: Can Change Occur at an Instant?
LIM 2	1.2	Defining Limits and Using Limit Notation
LIM 2	1.3	Estimating Limit Values from Graphs
LIM 2	1.4	Estimating Limit Values from Tables
LIM 1	1.5	Determining Limits Using Algebraic Properties of Limits
LIM 1	1.6	Determining Limits Using Algebraic Manipulation
LIM 1	1.7	Selecting Procedures for Determining Limits
LIM 3	1.8	Determining Limits Using the Squeeze Theorem
LIM 2	1.9	Connecting Multiple Representations of Limits
LIM 3	1.10	Exploring Types of Discontinuities
LIM 3	1.11	Defining Continuity at a Point
LIM 1	1.12	Confirming Continuity over an Interval
LIM 1	1.13	Removing Discontinuities
LIM 3	1.14	Connecting Infinite Limits and Vertical Asymptotes
LIM 2	1.15	Connecting Limits at Infinity and Horizontal Asymptotes
FUN 3	1.16	Working with the Intermediate Value Theorem (IVT)

Personal Progress Check 1

Multiple-choice: ~45 questions
Free-response: 3 questions (partial)

UNIT 2		Differentiation: Definition and Basic Derivative Rules
AP EXAM WEIGHTING		10–12% AB 4–7% BC
CLASS PERIODS		~13–14 AB ~9–10 BC
CHA 2	2.1	Defining Average and Instantaneous Rates of Change at a Point
CHA 1	2.2	Defining the Derivative of a Function and Using Derivative Notation
CHA 4	2.3	Estimating Derivatives of a Function at a Point
FUN 1	2.4	Connecting Differentiability and Continuity: Determining When Derivatives Do and Do Not Exist
FUN 3	2.5	Applying the Power Rule
FUN 1	2.6	Derivative Rules: Constant, Sum, Difference, and Constant Multiple
FUN 1	2.7	Derivatives of $\cos x$, $\sin x$, e^x , and $\ln x$
FUN 1	2.8	The Product Rule
FUN 1	2.9	The Quotient Rule
FUN 1	2.10	Finding the Derivatives of Tangent, Cotangent, Secant, and/or Cosecant Functions

Personal Progress Check 2

Multiple-choice: ~30 questions
Free-response: 3 questions (partial)

NOTE: Partial versions of the free-response questions are provided to prepare students for more complex, full questions that they will encounter on the AP Exam.

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<div> <div>UNIT 3</div> <div>Differentiation: Composite, Implicit, and Inverse Functions</div> </div> <div> <div>AP EXAM WEIGHTING</div> <div>9–13% AB 4–7% BC</div> </div> <div> <div>CLASS PERIODS</div> <div>~10–11 AB ~8–9 BC</div> </div>	<div> <div>UNIT 4</div> <div>Contextual Applications of Differentiation</div> </div> <div> <div>AP EXAM WEIGHTING</div> <div>10–15% AB 6–9% BC</div> </div> <div> <div>CLASS PERIODS</div> <div>~10–11 AB ~6–7 BC</div> </div>	<div> <div>UNIT 5</div> <div>Analytical Applications of Differentiation</div> </div> <div> <div>AP EXAM WEIGHTING</div> <div>15–18% AB 8–11% BC</div> </div> <div> <div>CLASS PERIODS</div> <div>~15–16 AB ~10–11 BC</div> </div>
<div> <div>FUN 1</div> <div>3.1 The Chain Rule</div> </div> <div> <div>FUN 1</div> <div>3.2 Implicit Differentiation</div> </div> <div> <div>FUN 3</div> <div>3.3 Differentiating Inverse Functions</div> </div> <div> <div>FUN 1</div> <div>3.4 Differentiating Inverse Trigonometric Functions</div> </div> <div> <div>FUN 1</div> <div>3.5 Selecting Procedures for Calculating Derivatives</div> </div> <div> <div>FUN 1</div> <div>3.6 Calculating Higher-Order Derivatives</div> </div>	<div> <div>CHA 1</div> <div>4.1 Interpreting the Meaning of the Derivative in Context</div> </div> <div> <div>CHA 1</div> <div>4.2 Straight-Line Motion: Connecting Position, Velocity, and Acceleration</div> </div> <div> <div>CHA 2</div> <div>4.3 Rates of Change in Applied Contexts Other Than Motion</div> </div> <div> <div>CHA 1</div> <div>4.4 Introduction to Related Rates</div> </div> <div> <div>CHA 3</div> <div>4.5 Solving Related Rates Problems</div> </div> <div> <div>CHA 1</div> <div>4.6 Approximating Values of a Function Using Local Linearity and Linearization</div> </div> <div> <div>LIM 3</div> <div>4.7 Using L'Hospital's Rule for Determining Limits of Indeterminate Forms</div> </div>	<div> <div>FUN 3</div> <div>5.1 Using the Mean Value Theorem</div> </div> <div> <div>FUN 3</div> <div>5.2 Extreme Value Theorem, Global Versus Local Extrema, and Critical Points</div> </div> <div> <div>FUN 2</div> <div>5.3 Determining Intervals on Which a Function Is Increasing or Decreasing</div> </div> <div> <div>FUN 3</div> <div>5.4 Using the First Derivative Test to Determine Relative (Local) Extrema</div> </div> <div> <div>FUN 1</div> <div>5.5 Using the Candidates Test to Determine Absolute (Global) Extrema</div> </div> <div> <div>FUN 2</div> <div>5.6 Determining Concavity of Functions over Their Domains</div> </div> <div> <div>FUN 3</div> <div>5.7 Using the Second Derivative Test to Determine Extrema</div> </div> <div> <div>FUN 2</div> <div>5.8 Sketching Graphs of Functions and Their Derivatives</div> </div> <div> <div>FUN 2</div> <div>5.9 Connecting a Function, Its First Derivative, and Its Second Derivative</div> </div> <div> <div>FUN 2</div> <div>5.10 Introduction to Optimization Problems</div> </div> <div> <div>FUN 3</div> <div>5.11 Solving Optimization Problems</div> </div> <div> <div>FUN 1</div> <div>5.12 Exploring Behaviors of Implicit Relations</div> </div>
<div>Personal Progress Check 3</div> <div>Multiple-choice: ~15 questions</div> <div>Free-response: 3 questions (partial/full)</div>	<div>Personal Progress Check 4</div> <div>Multiple-choice: ~15 questions</div> <div>Free-response: 3 questions</div>	<div>Personal Progress Check 5</div> <div>Multiple-choice: ~35 questions</div> <div>Free-response: 3 questions</div>

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UNIT 6 Integration and Accumulation of Change

AP EXAM WEIGHTING **17–20% AB** **17–20% BC**

CLASS PERIODS **~18–20 AB** **~15–16 BC**

CHA 4	6.1 Exploring Accumulations of Change
LIM 1	6.2 Approximating Areas with Riemann Sums
LIM 2	6.3 Riemann Sums, Summation Notation, and Definite Integral Notation
FUN 1	6.4 The Fundamental Theorem of Calculus and Accumulation Functions
FUN 2	6.5 Interpreting the Behavior of Accumulation Functions Involving Area
FUN 3	6.6 Applying Properties of Definite Integrals
FUN 3	6.7 The Fundamental Theorem of Calculus and Definite Integrals
FUN 4	6.8 Finding Antiderivatives and Indefinite Integrals: Basic Rules and Notation
FUN 1	6.9 Integrating Using Substitution
FUN 1	6.10 Integrating Functions Using Long Division and Completing the Square
FUN 1	6.11 Integrating Using Integration by Parts BC ONLY
FUN 1	6.12 Using Linear Partial Fractions BC ONLY
LIM 1	6.13 Evaluating Improper Integrals BC ONLY
FUN 1	6.14 Selecting Techniques for Antidifferentiation

Personal Progress Check 6

Multiple-choice:

- ~25 questions (AB)
- ~35 questions (BC)

Free-response: 3 questions

UNIT 7 Differential Equations

AP EXAM WEIGHTING **6–12% AB** **6–9% BC**

CLASS PERIODS **~8–9 AB** **~9–10 BC**

FUN 2	7.1 Modeling Situations with Differential Equations
FUN 3	7.2 Verifying Solutions for Differential Equations
FUN 2	7.3 Sketching Slope Fields
FUN 4	7.4 Reasoning Using Slope Fields
FUN 1	7.5 Approximating Solutions Using Euler's Method BC ONLY
FUN 1	7.6 Finding General Solutions Using Separation of Variables
FUN 1	7.7 Finding Particular Solutions Using Initial Conditions and Separation of Variables
FUN 3	7.8 Exponential Models with Differential Equations
FUN 3	7.9 Logistic Models with Differential Equations BC ONLY

Personal Progress Check 7

Multiple-choice:

- ~15 questions (AB)
- ~20 questions (BC)

Free-response: 3 questions

UNIT 8 Applications of Integration

AP EXAM WEIGHTING **10–15% AB** **6–9% BC**

CLASS PERIODS **~19–20 AB** **~13–14 BC**

CHA 1	8.1 Finding the Average Value of a Function on an Interval
CHA 1	8.2 Connecting Position, Velocity, and Acceleration of Functions Using Integrals
CHA 3	8.3 Using Accumulation Functions and Definite Integrals in Applied Contexts
CHA 4	8.4 Finding the Area Between Curves Expressed as Functions of x
CHA 1	8.5 Finding the Area Between Curves Expressed as Functions of y
CHA 2	8.6 Finding the Area Between Curves That Intersect at More Than Two Points
CHA 3	8.7 Volumes with Cross Sections: Squares and Rectangles
CHA 3	8.8 Volumes with Cross Sections: Triangles and Semicircles
CHA 3	8.9 Volume with Disc Method: Revolving Around the x - or y -Axis
CHA 2	8.10 Volume with Disc Method: Revolving Around Other Axes
CHA 4	8.11 Volume with Washer Method: Revolving Around the x - or y -Axis
CHA 2	8.12 Volume with Washer Method: Revolving Around Other Axes
CHA 3	8.13 The Arc Length of a Smooth, Planar Curve and Distance Traveled BC ONLY

Personal Progress Check 8

Multiple-choice: ~30 questions

Free-response: 3 questions