

**AP Calculus BC (354031)
Pacing (2009-2010)**

	Monday	Tuesday	Wednesday	Thursday	Friday
Sept 1-4		1 Syllabus & Summer HW Test	2 1.2 Finding Limits Graphically & Numerically	3 1.3 Evaluating Limits Analytically	4 1.4 Continuity and One-Sided Limits
Sept 7-11	7 No School Labor Day	8 1.5 Infinite Limits & 3.5 Limits at Infinity	9 Limits Review	10 Limits Test	11 2.1 The Derivative and the Tangent Line Problem
Sept 14-18	14 2.2 Basic Differentiation Rules and Rates of Change	15 2.3 Product and Quotient Rules and Higher-Order Derivatives	16 Inservice Day No School	17 2.3 Product and Quotient Rules and Higher-Order Derivatives	18 2.4 The Chain Rule
Sept 21-25	21 2.5 Implicit Differentiation	22 2.6 Related Rates	23 2.6 Related Rates	24 Derivatives Review	25 Derivatives Review
Sept 28-Oct 2	28 Derivatives Test	29 3.1 Extrema on an Interval	30 3.1 Extrema on an Interval	1 3.2 Rolle's Theorem and the Mean Value Theorem	2 3.3 Increasing and Decreasing Functions and the First Derivative Test
Oct 5-9	5 3.4 Concavity and the Second Derivative Test	6 3.6 A Summary of Curve Sketching	7 3.7 Optimization Problems	8 3.8 Newton's Method	9 ½ Day 3.7/3.8 Review
Oct 12-16	12 3.9 Differentials	13 Applications of Derivatives Review	14 Inservice Day No School	15 Applications of Derivatives Test	16 4.1 Antiderivatives and Indefinite Integration
Oct 19-23	19 4.2 Area	20 4.3 Riemann Sums and Definite Integrals	21 4.4 The Fundamental Theorem of Calculus	22 4.4 The Fundamental Theorem of Calculus	23 4.5 Integration by Substitution
Oct 26-30	26 4.5 Integration by Substitution	27 4.6 Numerical Integration	28 Integration Review	29 Convention No School	30 Convention No School
Nov 2-6	2 Integration Review	3 Integration Test	4 Final Exam Review	5 1st & 2nd Block Finals	6 3rd & 4th Block Finals

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	Monday	Tuesday	Wednesday	Thursday	Friday
Nov 9-13	9 5.1 The Natural Logarithmic Function: Differentiation	10 5.2 The Natural Logarithmic Function: Integration	11 5.3 Inverse Functions	12 5.4 Exponential Functions: Differentiation and Integration	13 5.5 Bases Other Than e and Applications
Nov 16-20	16 5.6 Inverse Trigonometric Functions: Differentiation	17 5.7 Inverse Trigonometric Functions: Integration	18 Logarithmic, Exponential and Other Transcendental Functions Review	19 Logarithmic, Exponential and Other Transcendental Functions Review	20 Logarithmic, Exponential and Other Transcendental Functions Test
Nov 23-27	23 6.1 Slope Fields and Euler's Method	24 6.2 Differential Equations: Growth and Decay	25 6.3 Separation of Variables and the Logistic Equation	26 No School Thanksgiving Break	27 No School Thanksgiving Break
Nov 30-Dec 4	30 Differential Equations Review	1 Differential Equations Test	2 7.1 Area of a Region Between Two Curves	3 7.2 Volume: The Disk Method (Disks)	4 7.2 Volume: The Disk Method (Washers)
Dec 7-11	7 7.3 Volume: The Shell Method	8 7.2 Volume: The Disk Method (Cross Sections)	9 7.4 Arc Length and Surfaces of Revolution	10 7.5 Work	11 ½ Day Review Day
Dec 14-18	14 7.6 Moments, Centers of Mass and Centroids	15 7.7 Fluid Pressure and Fluid Force	16 Applications of Integration Review	17 Applications of Integration Review	18 Applications of Integration Test & Take Home AB Test
Jan 4-8	4 Correct Take Home AB Test	5 8.1 Basic Integration Rules	6 8.2 Integration by Parts	7 8.2 Integration by Parts	8 8.3 Trigonometric Integrals
Jan 11-15	11 8.4 Trigonometric Substitution	12 8.5 Partial Fractions	13 8.6 Integration by Tables and Other Integration Techniques	14 8.7 Indeterminate Forms and L'Hôpital's Rule	15 8.8 Improper Integrals
Jan 18-22	18 ½ Day Integration Techniques, L'Hôpital's Rule and Improper Integrals Review	19 Integration Techniques, L'Hôpital's Rule and Improper Integrals Review	20 Integration Techniques, L'Hôpital's Rule and Improper Integrals Review	21 Integration Techniques, L'Hôpital's Rule and Improper Integrals Test	22 Final Exam Review
Jan 25-29	25 Final Exam Review	26 Final Exam Review	27 1st & 2nd Block Finals	28 3rd & 4th Block Finals	29 No School Teacher Work Day

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	Monday	Tuesday	Wednesday	Thursday	Friday
Feb 1-5	1 9.1 Sequences	2 9.2 Series and Convergence	3 9.2 Series and Convergence	4 9.3 The Integral Test and p -Series	5 9.3 The Integral Test and p -Series
Feb 8-12	8 9.4 Comparisons of Series	9 9.4 Comparisons of Series	10 Inservice Day No School	11 9.5 Alternating Series	12 9.5 Alternating Series
Feb 15-19	15 9.6 The Ratio and Root Tests	16 9.6 The Ratio and Root Tests	17 9.7 Taylor Polynomials and Approximations	18 9.7 Taylor Polynomials and Approximations	19 9.8 Power Series
Feb 22-26	22 9.8 Power Series	23 9.9 Representation of Functions by Power Series	24 9.9 Representation of Functions by Power Series	25 9.10 Taylor and Maclaurin Series	26 Infinite Series Review
Mar 1-5	1 No School Mid Winter Break	2 9.10 Taylor and Maclaurin Series	3 Infinite Series Review	4 Infinite Series Test	5 ½ Day Review Day
Mar 8-12	8 10.1 Conics and Calculus	9 10.2 Plane Curves and Parametric Equations	10 10.2 Plane Curves and Parametric Equations	11 10.3 Parametric Equations and Calculus	12 10.3 Parametric Equations and Calculus
Mar 15-19	15 10.4 Polar Coordinates and Polar Graphs	16 10.4 Polar Coordinates and Polar Graphs	17 10.5 Area in Polar Coordinates	18 10.5 Area in Polar Coordinates	19 10.6 Polar Equations of Conics and Kepler's Laws
Mar 22-26	22 Conics, Parametric Equations and Polar Coordinates Review	23 Conics, Parametric Equations and Polar Coordinates Test	24 11.1 Vectors in a Plane 11.2 Vectors in Space	25 12.1 Vector-valued Functions 12.2 Differentiation & Integration of Vector-valued Functions	26 12.3 Velocity and Acceleration
Mar 29-Apr 2	29 Final Exam Review	30 Final Exam Review	31 1st & 2nd Block Finals	1 3rd & 4th Block Finals	2 No School Spring Break