AP Calculus AB Pacing Chart -- Riddle

Date	# of Days	Section/topic	Course Description
		Review	
	1	Basic Functions and Domain, Range, and Symmetry	
	1	Families of Functions	
	1	Vertical and Horizontal Asymptotes, Holes and End Behavior	
	1	Piecewise Functions	
	1	Trig Functions and Unit Circle	
	5	TOTAL DAYS	
		Limits and Their Properties	
	2	1.1 Preview of Calculus	
	1	1.2 Finding limits graphically and numerically	1B1, 1B3
	2	1.3 Evaluating Limits Analytically	1B2
	2	1.4 Continuity and one-sided limits, IVT	1D1, 1D2, 1D3
	2	1.5 Infinite Limits, asymptotes	1C1, 1C2
	1	3.5 Limits at Infinity (Include with Chapter 1)	1C1, 1C2
	2	Supplement: dominance	1C3
	4	Catch-up, Sum up, review and test	
	16	TOTAL DAYS	
		Differentiation	
	3	2.1 The Derivative and the Tangent Line Problem	2A1, 2A3, 2A4, 2B1
	3	2.2 Basic Differentiation Rules and Rates of Change	2A2, 2B4, 2E5, 2F1, 2F2,
	2	2.3 Product & Quotient Rules Higher Order Derivatives	2F2, 2D1, 2D2, 2D3, 2E5
	2	2.4 The Chain Rule	2F3
	3	2.5 Implicit Differentiation	2F3
	3	2.6 Related Rates	2C4, 2E3
	4	Catch up, Sum up, review and tests	
	20	TOTAL DAYS	
		Applications of Differentiation	
	3	3.1 Extrema on an Interval, EVT	1D3, 2B1, 2E2, 2E1
	2	3.2 Rolle's theorem, the Mean Value Theorem	2B3
	3	3.3 increasing/Decreasing functions, First Derivative Test	2B1, 2C1, 2C2
	2	3.4 Concavity and the Second Derivative Test	2D1, 2D2, 2D3
	3	3.6 Summary of Curve Sketching	1A and above
	3	3.7 Optimization Problems	2E2

Date	# of Days		
	2	Supplement Motion Problems,	2E5
	2	3.9 Differentials	2B2,
	3	Catch up, Sum up, review and tests	
	23	TOTAL DAYS	
		Integration	
	4	4.1 Antiderivatives and Indefinite Integrals	3D1,
	3	4.2 Area	3B1,
	2	4.3 Riemann sums and Definite Integrals	3A1, 3A3,
	2	4.4 The Fundamental Theorem of Calculus	3C1, 3C2, 3B3
	2	4.5 Integration by Substitution	3D2
	3	4.6 Numerical Integration	3F
	2	Supplement Rate and Accumulation	3A2
	2	Sum up, review and tests	
	20	TOTAL DAYS	
		Logarithmic, Exponential and Other Transcendental Functions	
	1	5.1 The Natural Logarithm Function – Differentiation	2F1
	1	5.2 The Natural Logarithm Function – Integration	3D1, 3D2
	2	5.3 Inverse Functions	20000
	2	5.4 Exponential Functions: Differentiation and Integration	2F1, 3D1, 3D2
	2	5.5 Bases other than e and Applications	2F1, 3D1
	2	5.6 Inverse Trig Functions: Differentiation	2F1
	1	5.7 Inverse Trig Functions: Integration	300
	2	Sum up, review and test	
	13	TOTAL DAYS	
		Differential Equations	
	3	6.1 Slope Fields and Euler's Method	2E6,
	2	6.2 Differential Equations: Growth and Decay	3E1, 3E2
	3	6.3 Separation of Variables and the Logistic Equation	300
	3	Sum up, review and test	
	11	TOTAL DAYS	
		Applications of Integration	
	2	7.1 Area of the Region Between Two Curves	3A2, 3B1, 3B5
	4	7.2 Volume: the Disk Method	3B2
	4	Sum up, review and test	
	10	TOTAL DAYS	
Date	**# of Days**	**Exam Review**	
	1	Format of Test; exam hints, etc.	
	2	Multiple-choice – no calculator	
	2	Multiple-choice - calculator	
	2	Free-response – Area Volume	
	2	Free-response – Differential Equations	
	2	Free-response – Table Questions	
	2	Free-response – Graph Stems	
	2	Free-response – Rate / Accumulation	

	2	Free-response – Motion	
	4	Simulated Exam 1	
	4	Simulated Exam 2 (if time allows)	
	2	Miscellaneous.	
	27	TOTAL	
	145	**Total Class Days**	