AMAT112 Calculus I Lecture Schedule

WEEK		DATE		HW Due Dates and Practice Problems
1	Mon	8/25	• Introduction and Sec. 2.1 A Preview of Calculus	Pre-Calculus Review Problems
	Wed	8/27	• 1.1 Review of Functions	
	Fri	8/29	• 1.2 Basic Classes of Functions • Quiz 1	
2	**Mon**	**9/1**	**Classes suspended for Labor Day**	
	Wed	9/3	• 2.2 The Limit of a Function	Limits Practice Problems
	Fri	9/5	• 2.3 The Limit Laws • Quiz 2	HW1 Secs. 1.1, 1.2 Due Friday
3	Mon	9/8	• 4.6 Limits at Infinity and Asymptotes	
	Wed	9/10	• Practice and Problem Session	Limits at Infinity Practice Problems
	Fri	9/12	• 2.4 Continuity • Quiz 3	HW2 Secs. 2.2, 2.3, 4.6 Due Friday
4	Mon	9/15	• 2.4 Continuity (Continued)	Continuity Practice Problems
	Wed	9/17	• 3.1 Defining the Derivative	The Derivate Practice Problems
	Fri	9/19	• 3.2 The Derivative as a Function (Part 1) - up to Example 3.12 only • Quiz 4	
5	Mon	9/22	• Practice and Problem Session	HW3 Secs. 2.4, 3.1, 3.2 Due Monday
	Wed	**9/24**	**EXAM 1 in Class**	
	Fri	9/26	• 3.2 The Derivative as a Function (Part 2)	
6	Mon	9/29	• 3.3 Differentiation Rules	Chain, Product, and Quotient Rule Practice Problems
	Wed	10/1	• 3.3 Differentiation Rules (Continued)	
	Fri	10/3	• 3.5 Derivatives of Trigonometric Functions • Quiz 5	HW4 Secs. 3.2, 3.3 Due Friday
7	Mon	10/6	• 3.6 The Chain Rule	
	Wed	10/8	• Practice and Problem Session	Implicit Differentiation Practice Problems
	Fri	10/10	• 3.8 Implicit Differentiation • Quiz 6	HW5 Secs. 3.5, 3.6 Due Friday
8	**Mon**	**10/13**	**Classes suspended for Fall Break**	Inverse Functions Practice Problems
	Wed	10/15	• 3.7 Derivatives of Inverse Functions (via implicit differentiation)	Logarithmic Differentiation Practice Problems
	Fri	10/17	• 3.9 Derivatives of Exponential and Logarithmic Functions • Quiz 7	
9	Mon	10/20	• Practice and Problem Session	HW6 Sec. 3.7, 3.8, 3.9 Due Monday
	Wed	**10/22**	**EXAM 2 in Class**	
	Fri	10/24	• 4.2 Linear Approximations and Differentials (up through 4.2.3)	Linear Approx and Differentials Practice Problems
10	Mon	10/27	• 4.4 The Mean Value Theorem (Theorem 4.5 only and its applications)	The Mean Value Theorem Practice Problems
	Wed	10/29	• 4.3 Maxima and Minima	Maximum and Minimum Values Practice Problems
	Fri	10/31	• 4.3 Maxima and Minima (Continued) • Quiz 8	HW7 Secs. 4.2, 4.4 Due Friday
11	Mon	11/3	• 4.5 Derivatives and the Shape of a Graph	
	Wed	11/5	• 4.6 *Analyze a function and its deritivative to draw its graph	Derivatives and Curve Sketching Practice Problems
	Fri	11/7	• Practice and Problem Session • Quiz 9	HW8 Sec. 4.3 Due Friday
12	Mon	11/10	• 4.8 L'Hopital's Rule (up through 4.42)	
	Wed	11/12	• 4.8 L'Hopital's Rule (up through 4.42) (Continued)	L'Hopitals Rule Practice Problems
	Fri	11/14	• 4.7 Applied Optimization Problems • Quiz 10	HW9 Secs. 4.5, 4.6, 4.8 Due Friday
13	Mon	11/17	• 4.7 Applied Optimization Problems (Continued)	Optimization Practice Problems
	Wed	11/19	• 4.10 Antiderivatives	Antiderivatives Practice Problems
	Fri	11/21	• Practice and Problem Session • Quiz 11	HW10 Secs. 4.7, 4.10 Due Friday
14	**Mon**	**11/24**	**EXAM 3 in Class**	
	Wed	**11/26**	**Classes suspended for Thanksgiving Break**	
	Fri	**11/28**		
15	Mon	12/1	• 5.1 Approximating Areas	Area and the Definite Integral Practice Problems
	Wed	12/3	• 5.2 The Definite Integral	Evaluating Definite Integrals Practice Problems
	Fri	12/5	• 5.3 The Fundamental Theorem of Calculus • Quiz 12	
16	Mon	12/8	• 5.3 The Fundamental Theorem of Calculus (Continued)	The Fundamental Theorem of Calc Practice Problems
				HW11 Sec. 5.1, 5.2, 5.3 Due *Tuesday 12/9*
			OPTIONAL FINAL EXAM (Cumulative) date to be announce by the Registrar	