

AMAT112 Calculus I Lecture Schedule

WEEK	DATE		HW Due Dates and Resources
1	Tues 8/26	• Introduction and Sec. 2.1 A Preview of Calculus	Pre-Calculus Review Problems
	Wed 8/27	• 1.1 Review of Functions	
	Thurs 8/28	• 1.2 Basic Classes of Functions • Quiz 1	
2	Tues 9/2	• 2.2 The Limit of a Function	Limits Practice Problems
	Wed 9/3	• 2.3 The Limit Laws	HW1 Secs. 1.1, 1.2 Due Friday
	Thurs 9/4	• 4.6 Limits at Infinity and Asymptotes • Quiz 2	
3	Tues 9/9	• Practice and Problem Session	
	Wed 9/10	• 2.4 Continuity	Limits at Infinity Practice Problems
	Thurs 9/11	• 2.4 Continuity (Continued) • Quiz 3	HW2 Secs. 2.2, 2.3, 4.6 Due Friday
4	Tues 9/16	• 3.1 Defining the Derivative	Continuity Practice Problems
	Wed 9/17	• 3.2 The Derivative as a Function (Part 1) - up to Example 3.12 only	The Derivate Practice Problems
	Thurs 9/18	• Practice and Problem Session • Quiz 4	HW3 Sec. 2.4, 3.1, 3.2 Due *Monday 9/22*
5	Tues 9/23	EXAM 1 in Class	
	Wed 9/24	• 3.2 The Derivative as a Function (Part 2)	
	Thurs 9/25	• 3.3 Differentiation Rules	
6	Tues 9/30	• 3.3 Differentiation Rules (Continued)	
	Wed 10/1	• 3.5 Derivatives of Trigonometric Functions	
	Thurs 10/2	• 3.6 The Chain Rule • Quiz 5	HW4 Secs. 3.2, 3.3 Due Friday
7	Tues 10/7	• Practice and Problem Session	Chain, Product, and Quotient Rule Practice Problems
	Wed 10/8	• 3.8 Implicit Differentiation	Implicit Differentiation Practice Problems
	Thurs 10/9	• 3.7 Derivatives of Inverse Functions (via implicit differentiation) • Quiz 6	HW5 Secs. 3.5, 3.6 Due Friday
8	Tues 10/14	Classes suspended for Fall Break	
	Wed 10/15	• 3.9 Derivatives of Exponential and Logarithmic Functions	Inverse Functions Practice Problems Logarithmic Differentiation Practice Problems
	Thurs 10/16	• Practice and Problem Session • Quiz 7	HW6 Secs. 3.7, 3.8, 3.9 Due *Monday 10/20*
9	Tues 10/21	EXAM 2 in Class	
	Wed 10/22	• 4.2 Linear Approximations and Differentials (up through 4.2.3)	Linear Approx and Differentials Practice Problems
	Thurs 10/23	• 4.4 The Mean Value Theorem (Theorem 4.5 only and its applications)	The Mean Value Theorem Practice Problems
10	Tues 10/28	• 4.3 Maxima and Minima	Maximum and Minimum Values Practice Problems
	Wed 10/29	• 4.3 Maxima and Minima (Continued)	
	Thurs 10/30	• 4.5 Derivatives and the Shape of a Graph • Quiz 8	HW7 Secs. 4.2, 4.4 Due Friday
11	Tues 11/4	• 4.6 *Analyze a function and its derivative to draw its graph	Derivatives and Curve Sketching Practice Problems
	Wed 11/5	• Practice and Problem Session	
	Thurs 11/6	• 4.8 L'Hopital's Rule (up through 4.42) • Quiz 9	HW8 Sec. 4.3 Due Friday
12	Tues 11/11	• 4.8 L'Hopital's Rule (up through 4.42) (Continued)	L'Hopitals Rule Practice Problems
	Wed 11/12	• 4.7 Applied Optimization Problems	Optimization Practice Problems
	Thurs 11/13	• 4.7 Applied Optimization Problems (Continued) • Quiz 10	HW9 Secs. 4.5, 4.6, 4.8 Due Friday
13	Tues 11/18	• 4.10 Antiderivatives	Antiderivatives Practice Problems
	Wed 11/19	• 5.1 Approximating Areas	
	Thurs 11/20	• Practice and Problem Session	HW10 Secs. 4.7, 4.10 Due Friday
14	Tues 11/25	EXAM 3 in Class (Excludes Sec. 5.1)	
	Wed 11/26	Classes suspended for Thanksgiving Break	
	Thurs 11/27	Classes suspended for Thanksgiving Break	
15	Tues 12/2	• 5.2 The Definite Integral	Area and the Definite Integral Practice Problems
	Wed 12/3	• 5.3 The Fundamental Theorem of Calculus	Evaluating Definite Integrals Practice Problems
	Thurs 12/4	• 5.3 The Fundamental Theorem of Calculus (Continued) • Quiz 11	The Fundamental Theorem of Calc Practice Problems
			HW11 Sec. 5.1, 5.2, 5.3 Due *Tuesday 12/9*
FINAL EXAM (Cumulative) date to be announce by the Registrar			