AMAT112 Calculus I Lecture Schedule (Spring 2026)

WEEK		DATE		HW Due Dates and Resources
1	Th	1/22	• Introduction and Sec. 2.1 A Preview of Calculus • 1.1 Review of Functions • 1.2 Basic Classes of Functions	Pre-Calculus Review Problems
2	T/Th	1/27	• 2.2 The Limit of a Function • 2.3 The Limit Laws • 4.6 Limits at Infinity and Asymptotes • Quiz 1 (Secs. 1.1, 1.2)	Limits Practice Problems Limits at Infinity Practice Problems HW1 Pre-Calculus Review Due Friday 1/30
3	T/Th	2/3	• 2.4 Continuity • 2.4 Continuity (Continued) • 3.1 Defining the Derivative • Quiz 2 (Secs. 2.2, 2.3, 4.6)	Continuity Practice Problems HW2 Secs. 2.2, 2.3, 4.6 Due Friday 2/6
4	T/Th	2/10	• 3.2 The Derivative as a Function • 3.4 Derivatives as Rates of Change (Up to Checkpoint 3.21) • Catch Up and Review	The Derivative Practive Problems HW3 Sec. 2.4, 3.1, 3.2 Due Friday 2/13
			EXAM 1 in Class Tuesday 2/17	
5	T/Th	2/17	• 3.3 Differentiation Rules • 3.3 Differentiation Rules (Continued)	
6	T/Th	2/24	• 3.5 Derivatives of Trigonometric Functions • 3.6 The Chain Rule • 3.6 The Chain Rule (Continued) • Quiz 3 (Secs. 3.3, 3.5)	Chain, Product, and Quotient Rule Practice Problems HW4 Secs. 3.3, 3.4 Due Friday 2/24
7	T/Th	3/3	• 3.8 Implicit Differentiation • 3.7 Derivatives of Inverse Functions (via implicit differentiation) • 3.9 Derivatives of Exponential and Logarithmic Functions • Quiz 4 (Secs. 3.6, 3.8)	Implicit Differentiation Practice Problems Inverse Functions Practice Problems Logarithmic Differentiation Practice Problems HW5 Secs. 3.5, 3.6 Due Friday 3/6
8	T/Th	3/10	• 4.2 Linear Approximations and Differentials (up through 4.2.3) • Catch Up and Review	Linear Approximation and Differentials Practice Problems HW6 Secs. 3.7, 3.8, 3.9 *Due Wednesday 3/11*
			EXAM 2 in Class Thursday 3/12	
9	T/Th	3/17	***Classes Suspended for Spring Break***	
10	T/Th	3/24	• 4.4 The Mean Value Theorem (Theorem 4.5 only and its applications) • 4.3 Maxima and Minima • 4.3 Maxima and Minima (Continued)	The Mean Value Theorem Practice Problems Maximum and Minimum Values Practice Problems
11	T/Th	3/31	• 4.5 Derivatives and the Shape of a Graph • 4.5 Derivatives and the Shape of a Graph (Continued) • 4.6 (Continued) Analyze a function and its derivative to draw its graph • Quiz 5 (Secs. 4.2, 4.3, 4.4)	Derivatives and Curve Sketching Practice Problems HW7 Secs. 4.2, 4.3, 4.4 Due Friday 4/3
12	T/Th	4/7	• 4.8 L'Hopital's Rule (up through 4.42) • 4.8 L'Hopital's Rule (up through 4.42) (Continued) • 4.7 Applied Optimization Problems • Quiz 6 (Secs. 4.5, 4.6)	L'Hopital's Rule Pratice Problems HW8 Secs. 4.5, 4.6 Due Friday 4/10
13	T/Th	4/14	• 4.7 Applied Optimization Problems (Continued) • 4.10 Antiderivatives • Catch Up and Review	Optimization Practice Problems Antiderivatices Practice Problems HW9 Secs. 4.7, 4.8, 4.10 Due Friday 4/17
			EXAM 3 in Class Tuesday 4/21	
14	T/Th	4/21	• 5.1 Approximating Areas • 5.1 Approximating Areas (Continued)	Area and the Definite Integral Practice Problems
15	T/Th	4/28	• 5.2 The Definite Integral • 5.2 The Definite Integral (Continued) • 5.3 The Fundamental Theorem of Calculus • Quiz 7 (Secs. 5.1, 5.2)	Evaluating Definite Integrals Practice Problems HW10 Sec. 5.1, 5.2 Due Friday 5/1
16	T	5/5	• 5.3 The Fundamental Theorem of Calculus (Continued)	The Fundamental Theorem of Calc Practice Problems *HW11 (Optional) Sec. 5.3 Due Thursday 5/7*
			OPTIONAL DEPARTMENTAL FINAL EXAM (date to be announce by the Registrar)	