

AMAT112 Calculus I Lecture Schedule (Spring 2026)

WEEK	DATE	HW Due Dates and Resources
1	W 1/21	• Introduction and Sec. 2.1 A Preview of Calculus • 1.1 Review of Functions Pre-Calculus Review Problems
	F 1/23	• 1.2 Basic Classes of Functions
2	M 1/26	• 2.2 The Limit of a Function
	W 1/28	• 2.3 The Limit Laws
	F 1/30	• 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	M 2/2	• 2.4 Continuity
	W 2/4	• 2.4 Continuity (Continued)
	F 2/6	• 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	M 2/9	• 3.2 The Derivative as a Function
	W 2/11	• 3.4 Derivatives as Rates of Change (Up to Checkpoint 3.21)
	F 2/13	• Catch Up and Review The Derivative Practice Problems HW3 Sec. 2.4, 3.1, 3.2 Due Friday 2/13
5	M 2/16	EXAM 1 in Class Monday 2/16
	W 2/18	• 3.3 Differentiation Rules
	F 2/20	• 3.3 Differentiation Rules (Continued)
6	M 2/23	• 3.5 Derivatives of Trigonometric Functions
	W 2/25	• 3.6 The Chain Rule
	F 2/27	• 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 2/27
7	M 3/2	• 3.8 Implicit Differentiation
	W 3/4	• 3.7 Derivatives of Inverse Functions (via implicit differentiation)
	F 3/6	• 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	M 3/9	• 4.2 Linear Approximations and Differentials (up through 4.2.3)
	W 3/11	• Catch Up and Review
	F 3/13	Linear Approximation and Differentials Practice Problems HW6 Secs. 3.7, 3.8, 3.9 Due Wednesday 3/11 EXAM 2 in Class Friday 3/13
9	M 3/16	Classes Suspended for Spring Break
	W 3/18	
	F 3/20	
10	M 3/23	• 4.4 The Mean Value Theorem (Theorem 4.5 only and its applications)
	W 3/25	• 4.3 Maxima and Minima
	F 3/27	• 4.3 Maxima and Minima (Continued) The Mean Value Theorem Practice Problems Maximum and Minimum Values Practice Problems
11	M 3/30	• 4.5 Derivatives and the Shape of a Graph
	W 4/1	• 4.5 Derivatives and the Shape of a Graph (Continued)
	F 4/3	• 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	M 4/6	• 4.8 L'Hopital's Rule (up through 4.42)
	W 4/8	• 4.8 L'Hopital's Rule (up through 4.42) (Continued)
	F 4/10	• 4.7 Applied Optimization Problems • Quiz 6 (Secs. 4.5, 4.6) L'Hopital's Rule Practice Problems HW8 Secs. 4.5, 4.6 Due Friday 4/10
13	M 4/13	• 4.7 Applied Optimization Problems (Continued)
	W 4/15	• 4.10 Antiderivatives
	F 4/17	• Catch Up and Review Optimization Practice Problems Antiderivatives Practice Problems HW9 Secs. 4.7, 4.8, 4.10 Due Friday 4/17
14	M 4/20	EXAM 3 in Class Monday 4/20
	W 4/22	• 5.1 Approximating Areas
	F 4/24	• 5.1 Approximating Areas (Continued) Area and the Definite Integral Practice Problems
15	M 4/27	• 5.2 The Definite Integral
	W 4/29	• 5.2 The Definite Integral (Continued)
	F 5/1	• 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	M 5/4	• 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)		