

MA 16010 Applied Calculus I

Calendar (Traditional and Online), Fall 2024

Exam 1: Lessons 2-10 Exam 2: Lessons 11-19 Exam 3: Lessons 20-28

Date	Lesson	Topics
8/19 Mon	1	Course Information; Review
8/21 Wed	2	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically
8/23 Fri	3	Finding Limits Analytically
8/26 Mon	4	Continuity
8/28 Wed	5	The Derivative
8/30 Fri	6	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
9/2 Mon		Labor Day (No Classes)
9/4 Wed	7	Instantaneous Rates of Change
9/6 Fri	8	The Product Rule
9/9 Mon	9	The Quotient Rule; Derivatives of the Other Trigonometric Functions
9/11 Wed	10	The Chain Rule
9/13 Fri		Review for Exam 1
9/16 Mon		No Classes (for Exam 1)
9/16 Mon		Exam 1 (Lessons 2-10) Time: 8-9 pm Location: ELLT 116
9/18 Wed	11	The Chain Rule; Derivative of the Natural Logarithmic Function
9/20 Fri	12	Higher Order Derivatives
9/23 Mon	13	Implicit Differentiation
9/25 Wed	14	Related Rates
9/27 Fri	15	Related Rates
9/30 Mon	16	Relative Extrema and Critical Numbers
10/2 Wed	17	Increasing and Decreasing Functions and the First Derivative Test
10/4 Fri	18	Concavity; Inflection Points and the Second Derivative Test
10/7 Mon		October Break (No Classes)
10/9 Wed	19	Absolute Extrema on an Interval
10/11 Fri	20	Graphical Interpretation of Derivatives
10/14 Mon		Review for Exam 2
10/14 Mon		Exam 2 (Lessons 11-19) Time: 8-9 pm Location: ELLT 116
10/16 Wed	21	Limits at Infinity
10/18 Fri	22	A Summary of Curve Sketching
10/21 Mon	23	Optimization
10/23 Wed	24	Optimization
10/25 Fri	25	Optimization
10/28 Mon	26	Antiderivatives and Indefinite Integration
10/30 Wed	27	Antiderivatives and Indefinite Integration
11/1 Fri	28	Area and Riemann Sums

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Date	Lesson	Topics
11/4 Mon	29	Definite Integrals
11/6 Wed	30	Definite Integrals
11/8 Fri		Review for Exam 3
11/11 Mon		No Classes (for Exam 3)
11/11 Mon		Exam 3 (Lessons 20-28) Time: 6:30-7:30 pm Location: ELLT 116
11/13 Wed	31	The Fundamental Theorem of Calculus
11/15 Fri	32	The Fundamental Theorem of Calculus
11/18 Mon	33	Numerical Integration
11/20 Wed	34	Exponential Growth
11/22 Fri	35	Exponential Decay
11/25 Mon		No Classes (for Exam 2)
11/27 Wed		Thanksgiving Vacation (No Classes)
11/29 Fri		Thanksgiving Vacation (No Classes)
12/2 Mon		Review for Final Exam
12/4 Wed		Review for Final Exam
12/6 Fri		Review for Final Exam
12/9-12/14		Week of Final Exams