

MA 16010 Applied Calculus I

Calendar (Traditional and Online), Spring 2025

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

Date	Lesson	Topics
1/13 Mon	1	Course Information; Review
1/15 Wed	2	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically
1/17 Fri	3	Finding Limits Analytically
1/20 Mon		Martin Luther King Jr. Day (No Classes)
1/22 Wed	4	Continuity
1/24 Fri	5	The Derivative
1/27 Mon	6	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
1/29 Wed	7	Instantaneous Rates of Change
1/31 Fri	8	The Product Rule
2/3 Mon	9	The Quotient Rule; Derivatives of the Other Trigonometric Functions
2/5 Wed	10	The Chain Rule
2/7 Fri	11	The Chain Rule; Derivative of the Natural Logarithmic Function
2/10 Mon		Review for Exam 1
2/11 Tues		Exam 1 Time: 8:00-9:00pm Location: Elliott Hall of Music
2/12 Wed		No Classes (for Exam 1)
2/14 Fri	12	Higher Order Derivatives
2/17 Mon	13	Implicit Differentiation
2/19 Wed	14	Related Rates
2/21 Fri	15	Related Rates
2/24 Mon	16	Relative Extrema and Critical Numbers
2/26 Wed	17	Increasing and Decreasing Functions and the First Derivative Test
2/28 Fri	18	Concavity; Inflection Points and the Second Derivative Test
3/3 Mon	19	Absolute Extrema on an Interval
3/5 Wed	20	Graphical Interpretation of Derivatives
3/7 Fri	21	Limits at Infinity
3/10 Mon		Review for Exam 2
3/11 Tues		Exam 2 Time: 6:30-7:30pm Location: Elliott Hall of Music
3/12 Wed	22	A Summary of Curve Sketching
3/14 Fri		No Classes (for Exam 2)
3/17-3/21		Spring Break (No Classes)
3/24 Mon	23	Optimization
3/26 Wed	24	Optimization
3/28 Fri	25	Optimization
3/31 Mon	26	Antiderivatives and Indefinite Integration
4/2 Wed	27	Antiderivatives and Indefinite Integration
4/4 Fri	28	Area and Riemann Sums

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Date	Lesson	Topics
4/7 Mon		Review for Exam 3
4/8 Tues		Exam 3 Time: 8:00-9:00pm Location: Multiple Locations
4/9 Wed		No Classes (for Exam 3)
4/11 Fri	29	Definite Integrals
4/14 Mon	30	Definite Integrals
4/16 Wed	31	The Fundamental Theorem of Calculus
4/18 Fri	32	The Fundamental Theorem of Calculus
4/21 Mon	33	Numerical Integration
4/23 Wed	34	Exponential Growth
4/25 Fri	35	Exponential Decay
4/28 Mon		Review for Final Exam
4/30 Wed		Review for Final Exam
5/2 Fri		Review for Final Exam
5/5-5/10		Week of Final Exams