

MA 16010 Applied Calculus I

Calendar Fall 2020

Exam 1: Lesson 2-10 Exam 2: Lesson 11-18

Exam 3: Lesson 19-28 Exam 4/Final Exam: Lesson 29-36

Date	Lesson	Topics
8/24 Mon	1	Course Information
8/26 Wed	2	Finding Limits Numerically; One-sided Limits
8/28 Fri	3	Finding Limits Graphically
8/31 Mon	4	Finding Limits Analytically
9/2 Wed	5	Continuity
9/4 Fri	6	The Derivative
9/7 Mon	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
9/9 Wed	8	Instantaneous Rates of Change
9/11 Fri	9	The Product Rule
9/14 Mon	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions
9/16 Wed		Review for Exam 1
9/18 Fri		Exam 1 (Online Exam 1 Window: 9am on Thur 9/17 to 9am on Sun 9/20)
9/21 Mon	11	The Chain Rule
9/23 Wed	12	The Chain Rule; Derivative of the Natural Logarithmic Function
9/25 Fri	13	Higher Order Derivatives
9/28 Mon	14	Implicit Differentiation
9/30 Wed	15	Related Rates
10/2 Fri	16	Related Rates
10/5 Mon	17	Relative Extrema and Critical Numbers
10/7 Wed	18	Increasing and Decreasing Functions and the First Derivative Test
10/9 Fri		Review for Exam 2
10/12 Mon		Exam 2 (Online Exam 2 Window: 9am on Sat 10/10 to 9am on Tues 10/13)
10/14 Wed	19	Concavity, Inflection Points and the Second Derivative Test
10/16 Fri	20	Absolute Extrema on an Interval
10/19 Mon	21	Graphical Interpretation of Derivatives
10/21 Wed	22	Limits at Infinity
10/23 Fri	23	A Summary of Curve Sketching
10/26 Mon	24	Optimization
10/28 Wed	25	Optimization
10/30 Fri	26	Optimization
11/2 Mon	27	Antiderivatives and Indefinite Integration
11/4 Wed		Reading Day
11/6 Fri	28	Antiderivatives and Indefinite Integration

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Date	Lesson	Topics
11/9 Mon		Review for Exam 3
11/11 Wed		Exam 3 (Online Exam 3 Window: 9am on Tues 11/10 to 9am on Fri 11/13)
11/13 Fri	29	Area and Riemann Sums
11/16 Mon	30	Definite Integrals
11/18 Wed	31	Definite Integrals
11/20 Fri	32	The Fundamental Theorem of Calculus
11/23 Mon	33	The Fundamental Theorem of Calculus
11/25 Wed		THANKSGIVING VACATION (NO CLASSES)
11/27 Fri		THANKSGIVING VACATION (NO CLASSES)
11/30 Mon	34	Numerical Integration
12/2 Wed	35	Exponential Growth
12/4 Fri	36	Exponential Decay
12/7-12/12		Week of Final Exams