

# MA 16010 Applied Calculus I

## Calendar (Traditional and Distance), Fall 2019

**Exam 1: Lesson 2-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-28**

Date	Lesson	Topics
8/19 Mon	1	Course Information
8/21 Wed	2	Finding Limits Numerically; One-sided Limits
8/23 Fri	3	Finding Limits Graphically
8/26 Mon	4	Finding Limits Analytically
8/28 Wed	5	Continuity
8/30 Fri	6	The Derivative
9/2 Mon		LABOR DAY (NO CLASSES)
9/4 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
9/6 Fri	8	Instantaneous Rates of Change
9/9 Mon	9	The Product Rule
9/11 Wed	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions
9/13 Fri		REVIEW FOR EXAM 1
9/16 Mon		<b>NO CLASSES</b>
9/16 Mon		<b>EXAM 1 Time: 8:00-9:00pm Location: ELLT 116</b>
9/18 Wed	11	The Chain Rule
9/20 Fri	12	The Chain Rule; Derivative of the Natural Logarithmic Function
9/23 Mon	13	Higher Order Derivatives
9/25 Wed	14	Implicit Differentiation
9/27 Fri	15	Related Rates
9/30 Mon	16	Related Rates
10/2 Wed	17	Relative Extrema and Critical Numbers
10/4 Fri	18	Increasing and Decreasing Functions and the First Derivative Test
10/7 Mon		<b>FALL BREAK (NO CLASSES)</b>
10/9 Wed		REVIEW FOR EXAM 2
10/10 Thur		<b>EXAM 2 Time: 8:00-9:00pm Location: ELLT 116</b>
10/11 Fri		<b>NO CLASSES</b>
10/14 Mon	19	Concavity, Inflection Points and the Second Derivative Test
10/16 Wed	20	Absolute Extrema on an Interval
10/18 Fri	21	Graphical Interpretation of Derivatives
10/21 Mon	22	Limits at Infinity
10/23 Wed	23	A Summary of Curve Sketching
10/25 Fri	24	Optimization
10/28 Mon	25	Optimization
10/30 Wed	26	Optimization
11/1 Fri	27	Antiderivatives and Indefinite Integration

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Date	Lesson	Topics
11/4 Mon	28	Antiderivatives and Indefinite Integration
11/6 Wed	29	Area and Riemann Sums
11/8 Fri	30	Definite Integrals
11/11 Mon		REVIEW FOR EXAM 3
11/11 Mon		<b>EXAM 3 Time: 8:00-9:00pm Location: ELLT 116</b>
11/13 Wed	31	Definite Integrals
11/15 Fri	32	The Fundamental Theorem of Calculus
11/18 Mon	33	The Fundamental Theorem of Calculus
11/20 Wed	34	Numerical Integration
11/22 Fri	35	Exponential Growth
11/25 Mon		<b>NO CLASSES</b>
11/27 Wed		<b>THANKSGIVING VACATION (NO CLASSES)</b>
11/29 Fri		<b>THANKSGIVING VACATION (NO CLASSES)</b>
12/2 Mon	36	Exponential Decay
12/4 Wed		REVIEW FOR FINAL EXAM
12/6 Fri		REVIEW FOR FINAL EXAM
12/9-12/14		WEEK OF FINAL EXAMS