

# MA 16010 Applied Calculus I

## Calendar (Traditional and Distance), Fall 2018

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

Date	Lesson	Topics
8/20 Mon	1	Course Information; CCI (no calculators)
8/22 Wed	2	Finding Limits Numerically; One-sided Limits
8/24 Fri	3	Finding Limits Graphically
8/27 Mon	4	Finding Limits Analytically
8/29 Wed	5	Continuity
8/31 Fri	6	The Derivative
9/3 Mon		LABOR DAY (NO CLASSES)
9/5 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
9/7 Fri	8	Instantaneous Rates of Change
9/10 Mon	9	The Product Rule
9/12 Wed	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions
9/14 Fri		REVIEW FOR EXAM 1
9/17 Mon		<b>NO CLASSES</b>
9/17 Mon		<b>EXAM 1 Time: 8:00-9:00pm Location: ELLT 116</b>
9/19 Wed	11	The Chain Rule
9/21 Fri	12	The Chain Rule; Derivative of the Natural Logarithmic Function
9/24 Mon	13	Higher Order Derivatives
9/26 Wed	14	Implicit Differentiation
9/28 Fri	15	Related Rates
10/1 Mon	16	Related Rates
10/3 Wed	17	Relative Extrema and Critical Numbers
10/5 Fri	18	Increasing and Decreasing Functions and the First Derivative Test
10/8 Mon		<b>FALL BREAK (NO CLASSES)</b>
10/10 Wed	19	Concavity, Inflection Points and the Second Derivative Test
10/12 Fri		REVIEW FOR EXAM 2
10/15 Mon		<b>NO CLASSES</b>
10/15 Mon		<b>EXAM 2 Time: 6:30-7:30pm Location: ELLT 116</b>
10/17 Wed	20	Absolute Extrema on an Interval
10/19 Fri	21	Graphical Interpretation of Derivatives
10/22 Mon	22	Limits at Infinity
10/24 Wed	23	A Summary of Curve Sketching
10/26 Fri	24	Optimization
10/29 Mon	25	Optimization
10/31 Wed	26	Optimization
11/2 Fri	27	Antiderivatives and Indefinite Integration

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Date	Lesson	Topics
11/5 Mon	28	Antiderivatives and Indefinite Integration
11/7 Wed	29	Area and Riemann Sums
11/9 Fri	30	Definite Integrals
11/12 Mon		REVIEW FOR EXAM 3
11/12 Mon		<b>EXAM 3 Time: 6:30-7:30pm Location: ELLT 116</b>
11/14 Wed	31	The Fundamental Theorem of Calculus
11/16 Fri	32	The Fundamental Theorem of Calculus
11/19 Mon		<b>NO CLASSES</b>
11/21 Wed		<b>THANKSGIVING VACATION (NO CLASSES)</b>
11/23 Fri		<b>THANKSGIVING VACATION (NO CLASSES)</b>
11/26 Mon	33	Numerical Integration
11/28 Wed	34	Exponential Growth
11/30 Fri	35	CCI (no calculators)
12/3 Mon	36	Exponential Decay
12/5 Wed		REVIEW FOR FINAL EXAM
12/7 Fri		REVIEW FOR FINAL EXAM
12/10-12/15		WEEK OF FINAL EXAMS