

# MA 16010 Applied Calculus I

## Calendar (Traditional and Distance), Spring 2016

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

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

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Date	Lesson	Topics
3/28 Mon	26	Optimization
3/30 Wed	27	Antiderivatives and Indefinite Integration
4/1 Fri	28	Antiderivatives and Indefinite Integration
4/4 Mon		REVIEW FOR EXAM 3
4/6 Wed		OPTIONAL REVIEW FOR EXAM 3
<b>4/7 Thur</b>		<b>EXAM 3 Time: 6:30-7:30pm Location: TBA</b>
4/8 Fri	29	Area and Riemann Sums
4/11 Mon	30	Definite Integrals
4/13 Wed	31	The Fundamental Theorem of Calculus
4/15 Fri	32	The Fundamental Theorem of Calculus
4/18 Mon	33	Numerical Integration
4/20 Wed	34	Exponential Growth
4/22 Fri	35	Quiz 15; CCI
4/25 Mon	36	Exponential Decay
4/27 Wed		REVIEW FOR FINAL EXAM
4/29 Fri		REVIEW FOR FINAL EXAM
5/2-5/7		WEEK OF FINAL EXAMS