

# MA 16010 Applied Calculus I

## Calendar, Summer 2016

**Exam 1: Lesson 1-7 Exam 2: Lesson 8-14 Exam 3: Lesson 15-23**

Date	Lesson	Topics
6/13 Mon	1	Finding Limits Numerically; One-sided Limits; Finding limits Graphically
6/14 Tu	2	Finding Limits Analytically; Continuity
6/15 Wed	3	LON-CAPA Practice Problems; The Derivative
6/16 Th	4	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
6/17 Fri	5	Instantaneous Rates of Change
6/20 Mon	6	The Product Rule
6/21 Tu	7	The Quotient Rule; Derivatives of the Other Trigonometric Functions
6/22 Wed	8	The Chain Rule
6/23 Th		REVIEW FOR EXAM 1
6/24 Fri		<b>Exam 1</b>
6/27 Mon	9	The Chain Rule; Derivative of the Natural Logarithmic Function
6/28 Tu	10	Higher Order Derivatives; Implicit Differentiation
6/29 Wed	11	Implicit Differentiation; Related Rates
6/30 Th	12	Related Rates
7/1 Fri	13	Relative Extrema and Critical Numbers
7/4 Mon		No Class
7/5 Tu	14	Increasing and Decreasing Functions and the First Derivative Test
7/6 Wed	15	Concavity, Inflection Points and the Second Derivative Test
7/7 Th		REVIEW FOR EXAM 2
7/8 Fri		<b>Exam 2</b>
7/11 Mon	16	Absolute Extrema on an Interval
7/12 Tu	17	Graphical Interpretation of Derivatives
7/13 Wed	18	Limits at Infinity
7/14 Th	19	A Summary of Curve Sketching
7/15 Fri	20	Optimization
7/18 Mon	21	Optimization
7/19 Tu	22	Antiderivatives and Indefinite Integration
7/20 Wed	23	Antiderivatives and Indefinite Integration
7/21 Th		REVIEW FOR EXAM 3
7/22 Fri		<b>Exam 3</b>
7/25 Mon	24	Area and Riemann Sums
7/26 Tu	25	Definite Integrals
7/27 Wed	26	The Fundamental Theorem of Calculus
7/28 Th	27	Numerical Integration
7/29 Fri	28	Exponential Growth
8/1 Mon	29	Exponential Decay
8/2 Tu		REVIEW FOR FINAL EXAM
8/3 Wed		<b>Final Exam</b>
8/4 Th		<b>Final Exam</b>
8/5 Fri		<b>Final Exam</b>