

# MA 16010 Applied Calculus I

## Calendar, Summer 2014

Date	Lesson	Section	Topics
6/16 M	1	C.3	Trigonometric Functions
6/17 Tu	2	1.6	Exponential and Logarithmic Functions
6/18 W	3	2.2 & 2.3	Finding Limits Graphically, Numerically and Analytically
6/19 Th	4	2.4 & 2.5	Continuity, One-sided Limits and Infinite Limits
6/20 F	5	3.1	The Derivative and the Tangent Line Problem
6/23 M	6	3.2	Basic Differentiation Rules and Rates of Change
6/24 Tu	7	3.3	Product and Quotient Rules
6/25 W			REVIEW FOR EXAM 1
<b>6/26 Th</b>			<b>EXAM 1</b>
6/27 F	8	3.3 & 3.4	Higher-order Derivatives and Chain Rule
6/30 M	9	3.4	Chain Rule
7/1 Tu	10	3.5	Implicit Differentiation
7/2 W	11	3.7	Related Rates
7/3 Th	12	3.7	Related Rates
<b>7/4 F</b>			<b>INDEPENDENCE DAY (no classes)</b>
7/7 M	13	4.1	Extrema on an Interval
7/8 Tu	14	4.3	Increasing and Decreasing Functions and the First Derivative Test
7/9 W	15	4.3	Increasing and Decreasing Functions and the First Derivative Test
7/10 Th			REVIEW FOR EXAM 2
<b>7/11 F</b>			<b>EXAM 2</b>
7/14 M	16	4.4	Concavity and the Second Derivative Test
7/15 Tu	17	4.4	Concavity and the Second Derivative Test
7/16 W	18	4.5	Limits at Infinity
7/17 Th	19	4.6	A Summary of Curve Sketching
7/18 F	20	4.7	Optimization Problems
7/21 M	21	4.7	Optimization Problems
7/22 Tu	22	5.1	Antiderivatives and Indefinite Integration
7/23 W			REVIEW FOR EXAM 3
<b>7/24 Th</b>			<b>EXAM 3</b>
7/25 F	23	5.2	Area
7/28 M	24	5.3	Riemann Sums and Definite Integrals
7/29 Tu	25	5.4	The Fundamental Theorem of Calculus
7/30 W	26	5.4	The Fundamental Theorem of Calculus
7/31 Th	27	5.6	Numerical Integration
8/1 F	28	6.2	Differential Equations: Growth and Decay
8/4 M	29	6.2	Differential Equations: Growth and Decay
8/5 Tu			REVIEW FOR FINAL EXAM
8/6 W			<b>Final Exams</b>
8/7 Th			<b>Final Exams</b>
8/8 F			<b>Final Exams</b>