

# MA 16010 Applied Calculus I

## Calendar, Spring 2015

**Exam 1: Lesson 1-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-27**

Date	Lesson	Section	Topics
1/12 Mon	1	C.3	Trigonometric Functions
1/14 Wed	2	C.3&1.6	Trigonometric, Exponential and Logarithmic Functions
1/16 Fri	3	1.6	Exponential and Logarithmic Functions
1/19 Mon			Martin Luther King Jr. Day (No Classes)
1/21 Wed	4	2.2	Finding Limits Graphically and Numerically
1/23 Fri	5	2.3	Evaluating Limits Analytically
1/26 Mon	6	2.4	Continuity and One-sided Limits
1/28 Wed	7	2.5	Infinite Limits
1/30 Fri	8	3.1	The Derivative and the Tangent Line Problem
2/2 Mon	9	3.2	Basic Differentiation Rules
2/4 Wed	10	3.2	Rate of Change
2/6 Fri			REVIEW FOR EXAM 1
2/9 Mon			OPTIONAL REVIEW FOR EXAM 1
<b>2/9 Mon</b>			<b>EXAM 1 Time: 6:30-7:30pm Location: TBA</b>
2/11 Wed	11	3.3	Product and Quotient Rules and Higher-order Derivatives
2/13 Fri	12	3.3	Product and Quotient Rules and Higher-order Derivatives
2/16 Mon	13	3.4	The Chain Rule
2/18 Wed	14	3.4	The Chain Rule
2/20 Fri	15	3.5	Implicit Differentiation
2/23 Mon	16	3.7	Related Rates
2/25 Wed	17	3.7	Related Rates
2/27 Fri	18	4.1	Extrema on an Interval
3/2 Mon			REVIEW FOR EXAM 2
3/4 Wed			OPTIONAL REVIEW FOR EXAM 2
<b>3/5 Thur</b>			<b>EXAM 2 Time: 6:30-7:30pm Location: TBA</b>
3/6 Fri	19	4.3	Increasing and Decreasing Functions and the First Derivative Test
3/9 Mon	20	4.3	Increasing and Decreasing Functions and the First Derivative Test
3/11 Wed	21	4.4	Concavity and the Second Derivative Test
3/13 Fri	22	4.4	Concavity and the Second Derivative Test
3/16-3/21			Spring Break (No Classes)
3/23 Mon	23	4.5	Limits at Infinity
3/25 Wed	24	4.6	A Summary of Curve Sketching
3/27 Fri	25	4.7	Optimization Problems
3/30 Mon	26	4.7	Optimization Problems
4/1 Wed	27	4.7	Optimization Problems
4/3 Fri			REVIEW FOR EXAM 3

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**Exam 1: Lesson 1-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-27**

Date	Lesson	Section	Topics
4/6 Mon			OPTIONAL REVIEW FOR EXAM 3
<b>4/6 Mon</b>			<b>EXAM 3 Time: 6:30-7:30pm Location: TBA</b>
4/8 Wed	28	5.1	Antiderivatives and Indefinite Integration
4/10 Fri	29	5.1	Antiderivatives and Indefinite Integration
4/13 Mon	30	5.2	Area
4/15 Wed	31	5.3	Riemann Sums and Definite Integrals
4/17 Fri	32	5.4	The Fundamental Theorem of Calculus
4/20 Mon	33	5.4	The Fundamental Theorem of Calculus
4/22 Wed	34	5.6	Numerical Integration
4/24 Fri	35	6.2	Differential Equations: Growth and Decay
4/27 Mon	36	6.2	Differential Equations: Growth and Decay
4/29 Wed			REVIEW FOR FINAL EXAM
5/1 Fri			REVIEW FOR FINAL EXAM
5/4-5/9			WEEK OF FINAL EXAMS