MA 16010 Applied Calculus I

Calendar, Summer 2015

Exam 1: Lesson 1-7 Exam 2: Lesson 8-15 Exam 3: Lesson 16-22

Date	Lesson	Topics
6/15 Mon	1	Course Information; Finding Limits Numerically
6/16 Tu	2	One-sided Limits; Finding limits Graphically
6/17 Wed	3	Finding Limits Analytically; Continuity
6/18 Th	4	The Derivative
6/19 Fri	5	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivatives of the Natural Exponential Function
6/22 Mon	6	Instantaneous Rates of Change
6/23 Tu	7	The Product Rule
6/24 Wed		REVIEW FOR EXAM 1
6/25 Th		**Exam 1**
6/26 Fri	8	The Quotient Rule; Derivative of the Other Trigonometric Functions
6/29 Mon	9	The Chain Rule
6/30 Tu	10	The Chain Rule; Derivative of the Natural Logarithmic Function
7/1 Wed	11	Higher Order Derivatives; Implicit Differentiation
7/2 Th	12	Implicit Differentiation; Related Rates
7/3 Fri		No Class
7/6 Mon	13	Related Rates
7/7 Tu	14	Relative Extrema and Critical Numbers
7/8 Wed	15	Increasing and Decreasing Functions and the First Derivative Test
7/9 Th		REVIEW FOR EXAM 2
7/10 Fri		**Exam 2**
7/13 Mon	16	Concavity, Inflection Points and the Second Derivative Test
7/14 Tu	17	Absolute Extrema on an Interval
7/15 Wed	18	Graphical Interpretation of Derivatives
7/16 Th	19	Limits at Infinity; A Summary of Curve Sketching
7/17 Fri	20	A Summary of Curve Sketching; Optimization
7/20 Mon	21	Optimization
7/21 Tu	22	Optimization
7/22 Wed		REVIEW FOR EXAM 3
7/23 Th		**Exam 3**
7/24 Fri	23	Antiderivatives and Indefinite Integration
7/27 Mon	24	Area and Riemann Sums
7/28 Tu	25	Definite Integrals
7/29 Wed	26	The Fundamental Theorem of Calculus
7/30 Th	27	Numerical Integration
7/31 Fri	28	Exponential Growth
8/3 Mon	29	Exponential Decay
8/4 Tu		REVIEW FOR FINAL EXAM
8/5 Wed		**Final Exam**
8/6 Th		**Final Exam**
8/7 Fri		**Final Exam**