MA 16010 Applied Calculus I

Calendar, Summer 2018

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

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