

MA 16010 Applied Calculus I

Calendar, Summer 2017

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

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