

MA 16010 Applied Calculus I

Calendar, Summer 2019

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

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