MA 131-001: Calculus for Life and Management Sciences A, NCSU, Fall 2016

Tentative Schedule

Wed	August 17	10.1 (Supp.)	Introduction to Difference Equations
Fri	August 19	10.1-10.2	Introduction to Difference Equations
Mon	August 22	10.2	Introduction to Difference Equations
Wed	August 24	10.3	Graphing Difference Equations
Fri	August 26	10.4	Mathematics of Personal Finance
Mon	August 29	1.1	The Slope of a Straight Line
Wed	August 31	1.2	The Slope of a Curve at a Point
Fri	September 2	1.3	The Derivative and Limits
Mon	September 5	NO CLASS	Labor Day
Wed	September 7	1.4	Limits and the Derivative
Fri	September 9	TEST 1	10.1-10.4 (Supp.) and 1.1-1.4
Mon	September 12	1.5, 1.6	Differentiability and Continuity, Rules for Differentiation
Wed	September 14	1.6-1.8	Rules for Differentiation, Derivative as a Rate of Change
Fri	September 16	1.8	Examples of the Derivative as a Rate of Change
Mon	September 19	2.1, 2.2	Describing Graphs of Functions, First Derivative Rule
Wed	September 21	2.2	Second Derivative Rule
Fri	September 23	2.2, 2.3	First and Second Derivative Tests and Curve Sketching
Mon	September 26	2.4	Curve Sketching
Wed	September 28	2.5	Optimization Problems
Fri	September 30	2.6, 2.7	Optimization, Applications of Derivative
Mon	October 3	TEST 2	1.5-1.8, 2.1-2.7
Wed	October 5	3.1, 3.2	Product, Quotient, Chain and General Power Rules
Fri	October 7	NO CLASS	Fall Break
Mon	October 10	3.2, 4.1	Chain Rule, Exponential Functions
Wed	October 12	4.2, 4.3	Exponential Function, Diffentiation
Fri	October 14	4.4, 4.5	Natural Logarithm Function, Differentiation - *Drop Deadline*
Mon	October 17	4.6	Properties of The Natural Logarithm Function
Wed	October 19	5.1	Exponential Growth and Decay
Fri	October 21	5.2	Compound Interest
Mon	October 24	6.1	Antidifferentiation
Wed	October 26	Review	Review for Test 3
Fri	October 28	TEST 3	3.1-3.2, 4.1-4.6, 5.1-5.2
Mon	October 31	6.1, 6.2	Definite Integral and Net Change of a Function
Wed	November 2	6.3	Definite Integral and Area under a Graph
Fri	November 4	6.3, 6.4	Area under a Graph, Areas in xy-Plane
Mon	November 7	6.4, 6.5	Areas between Curves, Applications of the Definite Integral
Wed	November 9	6.5, 9.1	Solids of Revolution, Integration by Substitution
Fri	November 11	9.3	Evaluation of Definite Integrals
Mon	November 14	9.4	Approximation of Definite Integrals
Wed	November 16	9.5	Some Applications of the Integral
Fri	November 18	Review	Review for Test 4
Mon	November 21	TEST 4	6.1-6.5, 9.1, 9.3-9.4
Wed	November 23	NO CLASS	Thanksgiving Vacation
Fri	November 25	NO CLASS	Thanksgiving Vacation
Mon	November 28	9.6	Improper Integrals
Wed	November 30	Review	Review for Final
Fri	December 2	Review	Review for Final
Mon	December 12	FINAL	Final Exam 8:00-11:00 AM