

## Schedule MA 141-011 Fall 2006

<b>Week</b>	<b>Sections</b>	<b>Text Description</b>
Prerequisite material	1.1-1.4	
August 23-25	Appendix B	Coordinate Geometry
	1.5	Exponential Functions
August 28- September 1	1.6	Inverse Functions and Logarithms
	1.7	Parametric Curves
	2.1	The Tangent and Velocity Problems
	2.2	The Limit of a Function
<b>September 4</b>	<b>No Class</b>	<b>Labor Day</b>
September 5-8	2.3	Calculating Limits Using the Limit Laws
	2.4	Continuity
	2.5	Limits Involving Infinity
September 11-15	2.6	Tangents, Velocities and Other Rates of Change
	2.7	Derivatives
	Review	Review for Test #1
	<b>Test</b>	<b>Test #1 (Friday, Sept. 15)</b>
September 18-22	<i>Maple</i>	<i>*(begin Maple #0 and #1 – 9/18)</i>
	2.8	The Derivative as a Function
	2.9	What Does $f'$ say about $f$ ?
	3.1	Derivatives of Polynomials and Exponential Functions
September 25-29	<i>Maple</i>	<i>*(begin Maple #2 – 9/25)</i>
	3.2	The Product and Quotient Rules
	3.4	Derivatives of Trigonometric Functions
	3.5	The Chain Rule
October 2-6	3.6	Implicit Differentiation
	3.7	Derivatives of Logarithmic Functions
	Review	Review for Test #2
October 9-11	<b>Test</b>	<b>Test #2 (Monday, October 9)</b>
	3.8	Linear Approximations and Differentials
October 12-13	<b>No Class</b>	<b>Fall Break</b>
October 16-20	<i>Maple</i>	<i>*(begin Maple #3 – 10/16)</i>
	4.1	Related Rates
	4.2	Maximum and Minimum Values
	4.3	Derivatives and the Shapes of Curves
October 23-27	4.4	Graphing with Calculus and Calculators
	4.5	Indeterminate Forms and L'Hospital's Rule
	4.6	Optimization Problems
October 30- November 3	4.6	Optimization Problems cont.
	4.8	Newton's Method
	Review	Review for Test #3
	<b>Test</b>	<b>Test #3 (Friday, November 3)</b>

<b>Week</b>	<b>Sections</b>	<b>Text Description</b>
November 6-10	<i>Maple</i>	<i>*(begin Maple #4 – 11/06)</i>
	4.9	Antiderivatives
	5.1	Areas and Distances
	5.2	The Definite Integral
November 13-17	5.3	Evaluating Definite Integrals
	5.4	The Fundamental Theorem of Calculus
	5.5	The Substitution Rule
November 20-21	<i>Maple</i>	<i>*(begin Maple #5 – 11/20)</i>
	5.5	The Substitution Rule (continued)
	5.6	Integration by Parts
November 22-24	<b>No Class</b>	<b>Thanksgiving Break</b>
November 27- December 1	5.7	Additional Techniques of Integration (Trigonometric Integrals)
	5.7	Additional Techniques of Integration (Trigonometric Substitution)
	Review	Review for Test #4
	<b>Test</b>	<b>Test #4 (Friday, December 1)</b>
December 4-8	5.7	Integration of Rational Partial Fractions Functions
	Appendix G	Partial Fractions
	5.8	Integration Using Tables
	Review	Review for Final Exam
December 13	<b>Final Exam</b>	<b>1:00 pm – 4:00 pm</b>