MA 141 (Day-to-Day) Schedule for Fall 2007
NORTH CAROLINA STATE UNIVERSITY
Department of Mathematics
3rd Edition
*Maple Labs

Week	Sections	Text Description
August 22-24	1.1-1.4	Precalculus review (students should read and do practice problems on their own)
	Appendix B	Coordinate Geometry: Circles and Lines; Conic Sections
	1.5	Exponential Functions
August 27-31	1.6	Inverse Functions and Logarithms
	1.7	Parametric Curves
	2.1	The Tangent and Velocity Problems
	2.2	The Limit of a Function
September 3		**Labor Day**
September 4-7	2.3	Calculating Limits Using the Limit Laws
	2.4	Continuity
	2.5	Limits Involving Infinity
September 10-14	2.6	Tangents, Velocities, and Other Rates of Change
	2.7	Derivatives
	Review	Review for Test # 1
	Test	**Test # 1 (Thursday, Sept. 13)**
September 17-21	Maple	***(begin Maple # 0 and Maple # 1 – 9/17)**
	2.8	The Derivative as a Function
	2.9	What Does f' Say About f?
	3.1	Derivatives of Polynomials and Exponential Functions
September 24-28	Maple	***(begin Maple # 2 – 9/24)**
	3.2	The Product and Quotient Rules
	3.4	Derivatives of Trigonometric Functions
	3.5	The Chain Rule
October 1-5	3.6	Implicit Differentiation
	3.7	Derivatives of Logarithmic Functions
	Review	Review for Test # 2
October 8-10	**Test**	**Test # 2 (Tuesday, Oct. 9)**
	3.8	Linear Approximations and Differentials
October 11-12		**Fall Break**

Week	Section	Text Description
October 15-19	Maple	***(begin Maple # 3 – 10/15)**
	4.1	Related Rates
	4.2	Maximum and Minimum Values
	4.3	Derivatives and the Shapes of Curves
October 22-26	4.4	Graphing with Calculus and Calculators
	4.5	Indeterminate Forms and l'Hospital's Rule
	4.6	Optimization Problems
Oct. 29-Nov. 2	4.6	Optimization Problems (continued)
	4.8	Newton's Method
	Review	Review for Test # 3
	Test	**Test # 3 (Thursday, November 1)**
November 5-9	Maple	***(begin Maple # 4 – 11/05)**
	4.9	Antiderivatives
	5.1	Areas and Distances
	5.2	The Definite Integral
November 12-16	5.3	Evaluating Definite Integrals
	5.4	The Fundamental Theorem of Calculus
	5.5	The Substitution Rule
November 19-20	Maple	***(begin Maple # 5 – 11/19)**
	5.5	The Substitution Rule (continued)
	5.6	Integration by Parts
November 21-23		**Thanksgiving Break**
November 26-30	5.7	Additional Techniques of Integration (Trigonometric Integrals)
	5.7	Additional Techniques of Integration (Trigonometric Substitution)
	Review	Review for Test #4
	Test	**Test #4 (Thursday, November 29)**
December 3-7	5.7, Appendix G	Integration of Rational Partial Fractions Functions (Partial Fractions)
	5.8	Integration Using Tables
	Review	Review for Final Exam
December 13		**Final Exam 1:00PM-4:00PM**