## Math 341, Spring 2010, Tentative Schedule:

Date	Section/Topic
W 1/27/10	First Day Handout; §1.0 – Preliminary Remarks §1.2 – Review of Taylor Series
M 2/1/10	$\S1.2$ – Review of Taylor Series $\S2.1$ – Representation of Numbers in Different Bases
W $2/3/10$	$\S2.2$ – Floating Point Representation
M 2/8/10	$\S2.2$ – Floating Point Representation $\S2.3$ – Loss of Significance
W $2/10/10$	3.1 - Bisection Method
M $2/15/10$	§3.2 – Newton's Method
W $2/17/10$	3.3 – Secant Method
M $2/22/10$	§4.1 – Polynomial Interpolation
W $2/24/10$	§4.1 – Polynomial Interpolation
$M \ 3/1/10$	§4.2 – Errors in Polynomial Interpolation
W $3/3/10$	§4.2 – Errors in Polynomial Interpolation
$M \ 3/8/10$	5.2 - Trapezoid Rule
W $3/10/10$	6.1 - An Adaptive Simpson's Scheme
M $3/15/10$	Spring Break
W $3/17/10$	Spring Break
M $3/22/10$	6.2 – Gaussian Quadrature Formulas
W $3/24/10$	$\S 6.2$ – Gaussian Quadrature Formulas

- M 3/29/10 Review for Midterm
- W 3/31/10 Midterm Exam §1.0 6.2
- M 4/5/10 §7.1 Naive Gaussian Elimination
- W 4/7/10 §7.2 Gaussian Elimination with Scaled Partial Pivoting
- M 4/12/10 §7.3 Tridiagonal and Banded Systems
- W 4/14/10 §8.1 LU Factorization
- M 4/19/10 §8.2 Iterative Solution of Linear Equations
- W 4/21/10 §8.3 Singular Value Decomposition (SVD)
- M 4/26/10 §9.2 Natural Cubic Splines
- W 4/28/10 §9.2 Natural Cubic Splines
- M 5/3/10 §10.1 Taylor Series Methods
- W 5/5/10 §10.2 Runge-Kutta Methods
- M 5/10/10 §12.1 Method of Least Squares
- W 5/12/10 Review for Final Exam
- F 5/21/10 Final Exam