$\mathrm{Math}/\mathrm{CS}$ 4334, Fall 2013, Tentative Schedule:

Date	Section/Topic
M 8/26/13	First Day Handout; §1.0 – Preliminary Remarks §1.2 – Review of Taylor Series
W 8/28/13	$\S 1.2$ – Review of Taylor Series $\S 1.3$ – Representation of Numbers in Different Bases
M 9/2/13	Labor Day Holiday
W 9/4/13	MATLAB Demo
M 9/9/13	$\S 1.3$ – Floating Point Representation
W 9/11/13	§1.4 – Loss of Significance
M 9/16/13	$\S 3.1 - Bisection Method$
W 9/18/13	$\S 3.2$ – Newton's Method
M 9/23/13	$\S 3.3 - Secant Method$
W $9/25/13$	§4.1 – Polynomial Interpolation
M 9/30/13	§4.1 – Polynomial Interpolation
W 10/2/13	$\S4.2$ – Errors in Polynomial Interpolation
$M\ 10/7/13$	$\S4.2$ – Errors in Polynomial Interpolation
W 10/9/13	§5.1 – Trapezoid Rule
M 10/14/13	$\S5.3$ – An Adaptive Simpson's Scheme
W 10/16/13	$\mathbf{Midterm~Exam~\S1.0-5.3}$
M 10/21/13	§5.4 – Gaussian Quadrature Formulas

Date	Section/Topic
$W\ 10/23/13$	$\S 5.4$ – Gaussian Quadrature Formulas
M 10/28/13	§2.1 – Naive Gaussian Elimination
W 10/30/13	$\S 2.2$ – Gaussian Elimination with Scaled Partial Pivoting
M 11/4/13	$\S 2.3$ – Tridiagonal and Banded Systems
W 11/6/13	$\S 8.1 - LU$ Factorization
M 11/11/13	$\S 8.4$ – Iterative Solution of Linear Equations
W 11/13/13	$\S 8.2$ – Singular Value Decomposition (SVD)
M 11/18/13	§6.2 – Natural Cubic Splines
W 11/20/13	§6.2 – Natural Cubic Splines
M 11/25/13	Fall Break
W 11/27/13	Fall Break
M 12/2/13	$\S7.1$ – Taylor Series Methods
W 12/4/13	$\S7.2$ – Runge-Kutta Methods
M 12/9/13	$\S 9.1$ – Method of Least Squares
W 12/11/13	Review for Final Exam
TBD	Final Exam