MATH 083, Sections 1001, 1002, 1003, Spring 2008
Assignments, Part III, revised April 7th.

Note that problems to be turned in are due in class. They must be stapled. Problems sets that are not stapled or turned in after class and before 3:00 will lose 1 point. Problems turned in after 3:00 on the due date will not be graded. Similarly, problems that are difficult to read or follow will not be graded. For the correct answer to a submitted problem to count, all work must be shown and/or any calculator use explained.

WEEK 10 (March 26, 27, 28)
Section 8.1 – 8.3, Numerical Methods
Submit problems are posted under “lectures”
Begin Sections 7.1 and 7.2 Introduction to Systems of First Order Equations and Review of Matrices

WEEK 11 (March 31, April 2, 3, 4)
Finish Sections 7.1 and 7.2
Section 7.1, Do, but do not submit: 2, 4, 6
Section 7.2, Do, but do not submit: 2c, 2d, 10, 22, 15
Submit: 5

Section 7.3, Systems of Linear Algebraic Equations
Section 7.3, Do, but do not submit 1, 2, 3, 6
Submit: 4, 7
Express infinitely-many solutions as a linear combination of vector(s). Express a relationship of dependency as a scalar multiple of a vector. Express a unique solution as a vector.

Submit problems on numerical methods (Sections 8.1-8.3) are due in class Friday, April 4th.

WEEK 12 (April 7, 9, 10, 11)
Section 7.4 and 7.5, Homogeneous Linear Systems with Constant Coefficients
Section 7.5, Do, but do not submit: 1, 2, 7, 16, 18
Submit: 4, 12 No sketches required.

Section 7.9, Nonhomogeneous Linear Systems
Do, but do not submit: 1, 3
Submit: 8

Application
Do, but do not submit: Section 7.1, 22a
Submit: Problem on lecture Set up only.

Section 6.1, Definition of the Laplace Transform
Do exercises on pages 5-6 of lecture.

Submit problems from Sections 7.1-7.5, 7.9 and Application are due in class Friday, April 11th.

WEEK 13 (April 14, 16, 17, 18)
Section 6.2, Solution of Initial Value Problems
Do, but do not submit: 1, 2, 3, 4, 5, 6, 7, 11, 14, 15, 17, 22
Submit: 8, 10, 18, 23

Sections 6.3, 6.4, Step Functions, Solving Differential Equations with Discontinuous Forcing Functions
Section 6.3, Do, but do not submit: 2, 4, 5, 10, 12, 14
Submit: 6, 11, 15
Section 6.4, Do, but do not submit: 2
Submit: 5

WEEK 14 (April 21, 23, 24, 25)
Submit problems from Sections 6.1 – 6.4 are due in class Monday, April 21st.

Exam 3, Friday, April 25th on all material covered in Unit III from Chapters 7 and 6

WEEK 15 (April 28, 30, May 1, 3)
Review for Final Exam. Possibly no class May 2nd.

1 Note that there are two kinds of assignments: those that you should do but will not submit for grading, and those that you will submit for grading. Both sets of assignments are necessary for mastery of the material. Most of the assignments that are not for submitting can be found in the Student Solutions Manual.