Introduction to Numerical Analysis I
Math 5610 and 6860, Section 1, 4 Credits
MTWH 8:35-9:25, LCB 225
Fall 2008

This syllabus is subject to change.

Professor: Jeff Blanchard, LCB 337, jeff@math.utah.edu, 801-585-1644

Office Hours: Tuesday and Thursday: 9:30-10:30 am and by appointment.

Prerequisites: MATH 2210, either MATH 2250 or MATH 2270, and computing experience. This means that you must have a thorough grasp of calculus, particularly multivariable calculus, basic linear algebra, and some programming ability. Homework assignments and the course project will require you to write code that performs numerical algorithms correctly. While MATLAB will be the program of choice, any language will be accepted.

Text: Numerical Analysis, 8th Edition, by Burden and Faires. It is important and expected that you read the text.

The Course: We will cover the material of chapters 1-4, 6-8, and possibly some material not in the text. (Chapters 9 and 10 will be included time permitting.)

Course Webpage: http://www.math.utah.edu/~jeff/MATH5610_Fall2008.html

Homework: There will be six homework assignments usually due on Mondays at the beginning of class. The top five homework scores will count toward the final grade. The assignments will cover material up to and including Thursday’s class. Late homework will not be accepted.

Project: There will be a course project with details provided in class.

Exams: There will be one in class midterm announced at least one week in advance. The midterm is tentatively scheduled for October 9, 2008. The cumulative final exam will be Tuesday, December 16, 8:00-10:00 am. The final exam, while cumulative, will emphasize the material covered after the midterm.

Course Grade: Homework 25%, Project 15%, Midterm 25%, Final Exam 35%

Grades will be assigned according to a scale no stricter than: 93-100 A, 90-92 A-, 87-89 B+, 83-86 B, 80-82 B-, 77-79 C+, 73-76 C, 70-72 C-, 67-69 D+, 63-66 D, 60-62 D-, ≤ 59 E.

Attendance: Absences permitted by the university attendance policy must be coordinated prior to the class period in order to make up the missed homework or exams. This coordination should be done in person.

Students with Disabilities: Students with disabilities should make reasonable prior coordination with the Center for Disability Services, 162 Olpin Union building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.