MATH 527 (Numerical Analysis), Spring 2014

Meeting Information:
Classroom Location: LC 303B
Days and Times: T TH 1:15PM–2:30PM

Instructor Information
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Course Homepage: www.math.sc.edu/~xfliu/teaching/Spring2014/math527.htm

Textbook

Prerequisites
Math 242 or 520.

Subject Materials
This course will tentatively cover the materials presented in Chapters 1-11 of the text. One of the basic objectives of this course is to acquaint students of science and engineering with capabilities of using computers for solving numerical problems that arise in their professions. Another objective is to provide students an opportunity to hone their skills in computer programming and problem solving.

Homework
Homework will be assigned for each section, and will be collected regularly (Thursdays). Late homework will not be accepted, and no make-ups for missing homework. Details about this will be given as appropriate. One lowest homework will be dropped for the final grade calculation.

Exams
There will be two midterm exams and a comprehensive final exam. The exams are “closed book”: no books, no notes, no calculators, no labtop comptuer or equivalent technology, etc. There are no early exams. A late exam is only possible for a written legitimate documented reason. Note that student athletes, participating in a USC athletic event and with appropriate documentation, are exempt from this rule. You must take your exams with the lecture for which you are registered.

Grades
Homework (25%) (one lowest homework will be dropped)
Exam 1 (20%), Thursday, February 13
Exam 2 (20%), Thursday, March 20
Final (35%), Thursday, May 1

The deadline to drop this course without a grade of W is Friday, January 17, 2014. The dates and materials for two mid-term exams are tentative and subject to change as announced in class.

Reading

Reading the textbook in advance of the lecture is strongly encouraged. Benefits of this preparation include obtaining a familiarity with the terminology and concepts that will be encountered (so you can distinguish major points from side issues), being able to formulate questions about the parts of the presentation that you do not understand, and having a chance to review the skills and techniques that will be needed to apply the new concepts.

Learning Outcome

Students will master mathematical algorithms and programming skills with sufficient knowledge of applying numerical algorithms to solve a great variety of problems that arise from physical/engineering sciences. In addition, the students are also expected to be prepared to evaluate and judge the accuracy of the numerical results with computer algorithms.

Attendance

Attendance at every class meeting is important - and expected. Students missing more than 10% of the class meetings (4 days) can have their grade lowered.

Cell Phone and Computer Policy

Please remember to turn off or silence your cell phone prior to class. No texting allowed during class. Computers can only be used to make notes during class, and playing computer games during class is not tolerated.

Graduate Credit

Students taking Math 527 for graduate credit will have additional or some different questions on tests.

Academic Dishonesty

Cheating and plagiarism in any form is not tolerated. If a student is caught cheating, I will follow the guidelines as set forth in the USC Honor Code and other University guidelines.