MTH 451  Numerical Analysis I

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Office Hours: WF 2:00 - 3:30pm, or by appointment  
Class Hours: MWF 9:10 -10:00am at C104 WH

Text:  L. V. Fausett: Numerical Methods, Algorithm and Applications (Chapters: 1 - 8). Other references will be assigned when it is necessary.

Course description: This course is an introduction to the following subjects:  
(1) Numerical methods for solving nonlinear equations  
(2) Interpolation theory  
(3) Numerical solutions of linear systems  
(4) Eigenvalue problems

Homework: There will be several homework assignments during the semester. Your solutions of the homework problems will be collected and graded. Some of the assignments will require computer programming. You can use any computer language, but MATLAB is convenient and preferred.

Exams: There will be two(2) 50min tests and a final exam. The test dates are Oct. 13 and Nov. 14. All tests and exam will be close book, close notes and in class. The final exam will be comprehensive (two hours).

Grades: Your grade will be based on 20% of homework, 40% of the tests and 40% of the final exam. (90% - 100% is 4pts, 85% - 89% is 3.5pts, 80% - 84% is 3.0pts and etc.).

Absence: Although class attendance will not be counted, you are expected to be present at all class meetings. You are responsible for getting all the class information if an absence of class is unavoidable. Make-up tests and exam will ONLY be given for reasons like sickness with a doctor’s note. For family matters, school activities, etc., make-up tests or exam usually will not be granted. For very special cases, please come to talk to me ASAP for other possible arrangements.
Important Days: Please pay attention to

(1) Friday Aug. 29 - Last day of computer/telephone enrollment. Also the last day to change to or from CR/NR or visitor for Fall 2003.
(3) Friday Sept. 5 - Last day to late add a course or change sections within a course. NOTE: from Tues. Sept 2 to Friday Sept. 5 students MUST go to A212 WH to make these class changes.
(4) Thursday Sept. 18 - Last day to drop a course and receive a full refund.
(5) Tuesday Oct. 14 - (MIDDLE OF SEMESTER): Last day to drop a course with no grade reported.
(6) Thursday Nov. 27, Friday Nov. 28 - Holiday: university closed.