MATHS 362/562  
Numerical Analysis 1

Section: 001, 9:00-9:50 MWF, RB 450
Instructor: Kerry N. Jones
Office: RB 473, 285-8658
Office Hours: MTWF, 2-3 p.m. and by appointment

Homework: Homework problems will be assigned and discussed (usually each lecture), but not collected or graded. It is DEFINITELY in your best interest to do the homework problems, since that is your only way of assessing your readiness for the exams.

Exams: There will be two mid-term exams and a comprehensive final exam. The mid-term exams will each have an in-class portion and a take-home portion. The final exam will be take-home only, and will be due at the scheduled exam time (Wednesday, 12 December). The in-class portions of the mid-term exams will be given on 21 September and 26 October, respectively, and the take-home portions due one week later. All take-home exams will involve computer projects.

Programming: C++ is the preferred language for computer projects, but any language readable by the instructor is acceptable, provided that
1) excessively high-level subroutines are not employed (e.g., if the project calls for numerical solutions to ODE’s and the language has a built-in Numerical ODE solver, it should not be used) and
2) the level of internal precision used should be consistent and transparent (e.g., the language should not adaptively increase precision)

Grade: The grade will be determined entirely by the exams and by class participation.


Reading: Any reading assignments will be announced in advance. You will be expected to have read the material before class.

Topics: Chapters 1-10 and Chapter 12 (least squares)

Attendance Policy: class attendance is expected, as is class participation. A portion of the course grade, as mentioned above, comes from Class Participation. There will be no formal penalty for missing lectures, other than the fact that if it is a chronic problem, slack shall not be cut for you when test time arrives. I will concentrate my efforts on those students who are putting forth significant effort of their own. You have been warned!

Other Information: If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.