

Department of Mathematics
9:30 am, MWF Spring 2009

University of Iowa

Iowa City, IA 52242
110 MLH

22M:171 Numerical Analysis (II)

Instructor: WEIMIN HAN

Contact Information: whan@math.uiowa.edu, 335-0770, B1D MLH

Office hours: 1:00–4:00 pm, Wednesdays

Textbook: J. STOER & R. BULIRSCH, *Introduction to numerical analysis*, 3rd edition, Springer, 2002.

Course WWW address: <http://www.math.uiowa.edu/~whan/171.d/171.html>

TA: Seyon Yoon, who leads the discussion session at 9:30 T in 110 MLH.

Course description. This is the second part of a two-semester course sequence on basic numerical analysis, covering numerical solution of differential equations and numerical linear algebra (Chapters 7, 4, 8, and 6 of the textbook). Prerequisites are knowledge of some basic college mathematics (such as Calculus, Linear Algebra), and some knowledge of computer programming, preferably MATLAB. Some degree of mathematical maturity is desirable.

Grading. There will be a 50 minute exam on Chapter 7 on March 2. This exam counts 25% of the course grade. The final exam will cover materials from Chapters 4, 8, and 6, and will count 40% of the course grade. Homeworks will be due every Friday, except the first and last week of the semester. Homework assignments will count 35% of the course grade. Late homework is generally not accepted. Makeup exams are generally not allowed. The final exam is scheduled on Wednesday, May 13, from 12:00 pm to 2:00 pm.

Notes to Student. The Department of Mathematics has offices in 14 MLH. To make an appointment to speak with the chair of the department, call 335-0714 or contact the Departmental Secretary in 14 MLH.

Academic Fraud. Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences.

www.clas.uiowa.edu/students/academic_handbook/ix.shtml

Making a Suggestion or a Complaint. Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate and next with the departmental DEO. All complaints must be made within six months of the incident. www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5

Accommodations for Disabilities. A student seeking academic accommodations first must register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. See www.uiowa.edu/~sds/

Understanding Sexual Harassment. Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit www.sexualharassment.uiowa.edu/ for definitions, assistance, and the full policy.

Administrative Home of the Course. The administrative home of this course is the College of Liberal Arts and Sciences, which governs academic matters relating to the course such as the add/drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various CLAS requirements. Please keep in mind that different colleges might have different policies. If you have questions about these or other CLAS policies, visit your academic advisor or 120 Schaeffer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: www.clas.uiowa.edu/students/academic_handbook/index.shtml

Reacting Safely to Severe Weather. If severe weather is indicated by the UI outdoor warning system, class members will seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and of free-standing expanses which might prove unstable. The class will resume after the severe weather has ended. See the Operations Manual section 16.14. i.