

Department of Mathematics
10:30 am, MWF Spring 2009

University of Iowa

Iowa City, IA 52242
113 MLH

22C:072/22M:072 Elementary Numerical Analysis

Instructor: WEIMIN HAN

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

Text: *Elementary Numerical Analysis*, 3rd ed., by K.E. Atkinson and W. Han

Course WWW address: <http://www.math.uiowa.edu/~whan/072.d/072.html>

Welcome to 22C:072/22M:072. This is an introductory course on basic topics of numerical analysis, such as function interpolation and approximation, numerical integration, solution of linear and nonlinear equations and systems, solution of ordinary differential equations. The course will cover most sections of Chapters 1~6 and 8 from the textbook. You will learn how to derive, analyze and implement algorithms.

Grading. There will be an in-class mid-term exam, on materials from Chapters 1, 2, and 3. The final exam will be comprehensive with an emphasis on the materials discussed after the mid-term exam. The final exam is scheduled on Tuesday, May 12, from 12 pm to 2 pm. Homeworks will be due every Friday, except the first and last week of the semester.

The midterm will count 25% of your course grade, the final exam 45%, all the homeworks 30%.

Computers and calculators. A computer account will be assigned for computer projects. You may also use any machine you have access. The programming language is MATLAB.

Important notice. Students are expected to attend the classes, and are responsible for changes to the syllabus (such as changes in exam dates). Late homework is generally not accepted. Makeup exams are generally not allowed.

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.