Spring 2015
MATH:3800/CS:3700(22M:072/22C:072):0121
Elementary Numerical Analysis

Time and location. 12:30–1:20 pm (MWF), 105 MLH

Instructor. WEIMIN HAN; weimin-han@uiowa.edu, 335-0770, 25J MLH
Office hours: 9:30–10:20 am and 1:30–2:20 pm (W), 9:30–10:20 am (F), and by appointment

DEO Contact Information. Dan Anderson, 14 MLH, dan-anderson@uiowa.edu


Course WWW address: http://homepage.math.uiowa.edu/~whan/072.d/072.html
The course website contains homework assignments, MATLAB programs, and other useful materials.

Welcome to MATH:3800/CS:3700. This is an introductory course on basic topics of numerical analysis, such as computer arithmetic, 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 1~8 from the textbook. You will learn how to derive, analyze and implement algorithms.

Grading. Homeworks will be due every Friday, except the first and last week of the semester. There will be an in-class mid-term exam on Friday, March 6, on materials up to Section 4.3. The final exam will be comprehensive with an emphasis on the materials discussed after the mid-term exam. The date, time, and location of the final examination will be announced by the Registrar on the Registrar’s web site, generally by the tenth day of classes. It is the student’s responsibility to know the date, time, and place of the final exam.

The midterm will count 25% of your course grade, the final exam 40%, all the homeworks 30%, and attendance 5%. The plus/minus grading system will be used. However, note that the grade A+ will be assigned only to students with truly exceptional performance.

Students are expected to attend the classes, and are responsible for changes to the syllabus. Late homework is not accepted. Makeup exams are generally not allowed. Students are not allowed to collaborate with others on homework and exams. Do not share your work with others or ask others to see their completed assignments since both are considered academic misconduct.

Computers. A computer account will be assigned for computer projects in some homework problems. The programming language is MATLAB.

Administrative Home. The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be
addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at http://clas.uiowa.edu/students/handbook.

**Electronic Communication.** University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (uiowa.edu). Faculty and students should use this account for correspondences (Operations Manual, III.15.2, k.11).

**Accommodations for Disabilities.** A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See www.uiowa.edu/~sds/ for more information.

**Academic Honesty.** All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College’s Code of Academic Honesty: “I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty”. Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (CLAS Academic Policies Handbook).

**CLAS Final Examination Policies.** The final examination schedule for each class is announced by the Registrar generally by the tenth day of classes. Final exams are offered only during the official final examination period. No exams of any kind are allowed during the last week of classes. All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar’s web site and will be shared with instructors and students. It is the student’s responsibility to know the date, time, and place of a final exam.

**Making a Suggestion or a Complaint.** Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (CLAS Academic Policies Handbook).

**Understanding Sexual Harassment.** Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

**Reacting Safely to Severe Weather.** In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Department of Public Safety website.