Course Syllabus

Course: Mathematics 0414.001.
Course Title: Introduction to Numerical Analysis.
Place: 617 Wachman Hall (Lab in 507 Wachman Hall).
Instructor: Szyld, Daniel B.
Instructor Office: 506 Wachman Hall.
Instructor Email: szyld@temple.edu.
Instructor Phone: 215.204.7288.
Office Hours: TR 2:30-4:00.
Prerequisites: Undergraduate Linear Algebra, and permission from the instructor.
Course Goals: Obtain an initial understanding of numerical analysis and scientific computing.
Topics Covered: This is a one semester course which introduces the student to a successful scientific tool: MATLAB. Basic concepts in numerical analysis and scientific computing will be studied. Algorithms for the solution of specific problems arising in science and engineering using computers are presented and analyzed. Some of the specific methods to be studied include: Approximation and interpolation of functions. Numerical integration. Finding roots of non-linear equations. Numerical solutions of ordinary differential equations (initial value problems).
Course Grading: There will be graded homework, often with computer projects, (40% of the grade), a midterm exam on March 16 (20% of the grade), and a (cumulative) final oral exam (30% of the grade). Class participation (10%).
Attendance Policy: Attendance is mandatory. If you need to miss class for some reason, please inform the instructor.

Any student who has a need for accommodation based on the impact of a disability should contact me privately to discuss the specific situation as soon as possible. Contact Disability Resources and Services at (215) 204-1280, 100 Ritter Annex, to coordinate reasonable accommodations for students with documented disabilities.

Students will be charged for a course unless a withdrawal form is processed by a registration office of the University by the Drop/Add deadline date. The Drop/Add deadline date is published in the Class Schedule each semester and is at the end of the second week of the semester or the third day of each summer session. For this semester, the crucial dates are as follows:

- The last day to drop (tuition refund available) is Monday January 30.
- Spring recess is the week of Sunday March 5.
• The last day to withdraw (no refund) is Monday March 27.
• The last day of classes is Monday May 1.

During the first two weeks of the fall or spring semester or summer sessions, students may withdraw from a course with no record of the class appearing on the transcript. In weeks three through nine of the fall or spring semester, or during weeks three and four of summer sessions, the student may withdraw with the advisor’s permission. The course will be recorded on the transcript with the instructor’s notation of “W,” indicating that the student withdrew. After week nine of the fall or spring semester, or week four of summer sessions, students may not withdraw from courses. No student may withdraw from more than five courses during the duration of his/her studies to earn a bachelor’s degree. A student may not withdraw from the same course more than once. Students who miss the final exam and do not make alternative arrangements before the grades are turned in will be graded F.