Math 310: Applied Linear Algebra

UIC – Spring 2017

Instructor: Sherwood Hachtman
Time: MWF 4-4:50
Location: LEC F3
Office Hour: W 1-2 and F 2-3 in SEO 616
Course page: `http://math.uic.edu/~shac/math310-S17/`

Text: David Lay, Steven Lay, & Judi McDonald: *Linear Algebra and Its Applications*, 5th Ed, Pearson Education, Inc.

Course topics: Matrices, Gaussian elimination, vector spaces, LU-decomposition, orthogonality, Gram-Schmidt process, determinants, inner products, eigenvalue problems, applications to differential equations and Markov processes.

Grading: The final grade will be determined as follows:
- 100 points (20%) Weekly quizzes, given every Friday (except for exam weeks).
- 100 points (20%) Midterm 1, given in class on Friday, February 24
- 100 points (20%) Midterm 2, given in class on Friday, April 7
- 200 points (40%) Final Exam, Tuesday May 2, 3:30-5:30 PM, Location TBD.

Midterm, quiz & exam grades will be posted on `http://blackboard.uic.edu`

Attendance: A sign-in sheet will be randomly distributed during the semester. There is no penalty for the first four absences noted, but if a student misses more than 4 classes, 15 points will be deducted from their final grade for each additional lecture missed. Absences may be excused if the instructor is notified in advance and proper documentation (e.g. doctor's note) is provided.

Quizzes: Quizzes of length between 10 and 15 minutes will be given every week in class on Fridays, except for weeks of midterm exams. No calculators or outside notes are permitted during quizzes. The lowest 3 quiz scores will be dropped.

Homework: For each lecture a set of problems from the book will be assigned and posted on the course web page. *These will **not** be collected.* However, the quiz problems will closely resemble problems from the homework.

Make-up Exams: Make-ups for the midterms will be given only in extreme circumstances (e.g. a documented emergency). Make-up exams will be more difficult, to compensate for the fact that a student making up the exam will have had more time to study.

The final exam is scheduled for Tuesday May 2, 3:30-5:30 PM. Students with a legitimate scheduling conflict (e.g. 3 exams scheduled on the same day) must contact the instructor as soon as possible **and before April 1** in order to reschedule.

Special accommodations: Students with disabilities who require special accommodations for access and participation in this course must be registered with the Office of Disability Services (ODS). Students who need exam accommodations must contact ODS in the first week of the term to arrange a meeting with a Disability Specialist. Please contact ODS at (312)-413-2183 (voice) or (312)-413-0123 (TTY). **Don't forget to forward your accommodation letter from ODS to the instructor!**
More information at the Disability Resource Center: `https://drc.uic.edu/`

Academic integrity: Students are expected to abide by the UIC guidelines for academic integrity, see:
`https://dos.uic.edu/docs/Guidelines%20for%20Academic%20Integrity.pdf`
Instances of academic misconduct (including cheating, fabrication, plagiarism, threats, examination by proxy) shall be handled pursuant to the student Disciplinary Policy, `http://go.uic.edu/disciplinarypolicy`