

Math 310: Applied Linear Algebra Fall 2015

Meeting Times:

Lecture: MWF 9:00-9:50a, BSB 140

Instructor: Chris Skalit

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Office Hours: M 1-2p; W 11a-12p

Text: *Linear Algebra and Its Applications*, Lay, 5th edition.

Course Overview: We will cover roughly the first seven chapters of Lay's text at a pace of one section per lecture. Among the topics we will study are matrices and Gaussian elimination, determinants, bases and change of coordinates, eigenvalues and diagonalization, systems of differential equations, inner products, and least-squares approximation.

Grading Breakdown:

Quizzes: 100 points (20%)

Exam 1: 100 points (20%)

Exam 2: 100 points (20%)

Final: 200 points (40%)

Homework: After each class, a list of suggested homework problems will be assigned from the text. While homework **will not** be collected, it is in your best interest to work through the problems as they are indicative of what you can expect to find on quizzes and exams.

Quizzes: Short 10-minute quizzes will be given weekly on Wednesdays (except during the first week and on exam weeks). Each quiz will consist of material covered in the previous week. No makeups will be given, but only your best 10 quizzes will be counted.

Hourly Exams: There will be two in-class examinations, occurring on the following dates:

Exam 1: Wednesday, September 30, 2015.

Exam 2: Wednesday, November 11, 2015.

The use of calculators on exams is **not** permitted on quizzes or exams.

Exam Makeups: Makeups will only be given in extreme circumstances and will require

necessary documentation (e.g. a doctor's note). Arrangements must be made **prior** to the scheduled exam date. Be advised that a makeup exam will be more challenging than the original to account for the fact that you will have had more time to prepare for it.

Final Exam: Tuesday, December 8, 2015. 10:30a-12:30p. The final exam must occur at the time and date established by the registrar. Students with qualifying scheduling conflicts (e.g. three exams on the same day) must notify the instructor before November 1st so that special accommodations may be made. Otherwise, all of the preceding rules regarding makeups apply.

Attendance: Students are expected to make a serious effort to attend every lecture and to notify the instructor in advance if they cannot attend class. A sign-in sheet will be passed around the room periodically throughout the semester. **Each unexcused absence after the fourth will incur a 15 point deduction from the final grade.**

Math Learning Center: Located in SEO 430, the Math Learning Center is staffed with individuals who can answer your questions about 310.

MIT OpenCourseWare: Recorded lectures of a Linear Algebra recently given at MIT may be found at the following address:

<http://ocw.mit.edu/courses/mathematics/18-06-linear-algebra-spring-2010/>

Disabilities: Students with disabilities who require special accommodations for access and participation in this course must be registered with the Disability Resource Center (DRC). Students who need exam accommodations must contact DRC in the first week of the term to arrange a meeting with a Disability Specialist. Please contact DRC at (312)-413-2183. **Do not forget to forward your accommodation letter from DRC to the instructor!**