

Math 2270-1 Linear Algebra

Fall Semester, 2002

Instructor: David C. Dobson
Office: LCB 210
Office hours: MTWF 10:30-11:30, or by appointment.
Contact: dobson@math.utah.edu or 585-7660.
Class meetings: MTWF 9:40-10:30, JTB 120.
Home page: www.math.utah.edu/~dobson/2270/

Course Description: 4 credits. Euclidean space, linear systems, Gaussian elimination, determinants, inverses, vector spaces, linear transformations, quadratic forms, least squares and linear programming, eigenvalues and eigenvectors, diagonalization. Includes theoretical and computer lab components.

Prerequisites: First year calculus, Math 1210-1220, or Math 1250-1260.

Text: *Linear Algebra with Applications*, second edition, by Otto Bretscher.

Homework: Will be assigned regularly and will generally be due on Friday of each week. A random selection of problems on each assignment will be graded. Late homework cannot be accepted.

Projects: Several computing projects will be assigned during the semester. These will be somewhat longer and more involved than homework problems. An introduction to the *Matlab* computing package will be included early in the semester. No previous Matlab experience is necessary.

Exams: Two midterm exams and a comprehensive final exam will be given in class. All exams are closed-book, closed-notes. Scientific calculators may be used, but no notebooks or wireless devices.

Grades: Your grade will be determined by your scores on three exams, and the total of your homework and projects scores. The dates and weights of each of these are as follows.

Homework and projects	(weekly)	30%
Exam I	(Friday, October 4)	20%
Exam II	(Friday, November 1)	25%
Final Exam	(Tuesday, December 10, 8:00-10:00 am)	25%

There will be no opportunities for extra credit. Makeups for exams and projects will generally only be given in case of University-excused absences.

Tutoring is available from the *Math Tutoring Center*. See www.math.utah.edu/ugrad/tutoring.html for more information.

Students with disabilities may contact the instructor at the beginning of the semester to discuss special accommodations for the course.

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