

Mathematics 290, Fall 2006 (Section #28301)
Elementary Linear Algebra (2 credits)

Instructor: Jeremy Martin

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Office hours: Tue 1:30–2:30 and Wed 11:00–12:00, or by appointment

Meeting times: Tue/Thu 11:00 – 11:50 AM in 1003 Malott Hall

Website: The course website is:

<http://www.math.ku.edu/~jmartin/math290/>

Bookmark it and check it frequently! The website will contain complete course information including announcements, homework assignments, and test solutions.

Course description: Math 290 covers the fundamentals of linear algebra, a subject that is ubiquitous in higher mathematics and has numerous applications in science and engineering. Topics include systems of linear equations, matrix algebra, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors.

Prerequisites: Math 122/142 (Calculus II) or the equivalent. No previous experience with linear algebra is assumed or necessary.

Textbook: *Elementary Linear Algebra*, 5th edition, by Larson, Edwards and Falvo. Available at KU Bookstore (www.kubookstore.com; (785) 864-4640). We will cover most of Chapters 1–7.

Lectures: I expect you to come to class every day and to participate. Don't be afraid to speak up; if you feel confused, you almost certainly aren't the only one. There is no such thing as a stupid question in mathematics!

Homework: Homework is due at noon every Thursday (including test days, but not including fall break or Thanksgiving), starting **August 24**. This makes a total of 14 homework assignments; your two lowest scores will be dropped. You can hand in homework in class, leave it in my mailbox in the Math Department offices, 405 Snow, or bring it to my office, 541 Snow (leave it in the wall box or slip it under my door if I am not around). *Late homework will not be accepted.*

Tests: There will be three in-class tests, on **Thursday, September 7**, **Tuesday, October 10**, and **Thursday, November 9**. The first test will be worth 10% of your grade, and the second and third tests each 15%. Each test will focus on approximately two chapters of the textbook, but earlier material is also fair game.

Final Exam: The final exam is scheduled for **Thursday, December 14**, from 10:30 AM–1:00 PM, location TBA. The exam is worth 35% of your final grade.

Aids permitted on quizzes and exams: You will be permitted to use a calculator, but no other aids, on the in-class and final exams.

Makeup exam policy: If for some legitimate and unavoidable reason you are unable to attend a scheduled midterm or final exam, it is your responsibility to notify me as soon as possible to arrange a makeup exam.

Approximate time commitment: This is a 2-credit course, so I would guess that the average student should spend at least 4 hours per week outside of class to get a decent grade. In addition to spending time on homework problems, you should get into the habit of reading a section or two ahead in the book, so as to be better prepared for lecture.

Grading: Raw scores will be calculated as follows:

- Homework: 240 points
- Test #1: 100 points
- Test #2: 150 points
- Test #3: 150 points
- Final exam: 360 points
- **Total: 1000 points**

A raw score of 900 points guarantees you an A, a score of 800 points guarantees you at least a B, etc. These requirements *may* be lowered if appropriate.

Incompletes: A grade of I is a rare occurrence and is reserved for cases in which a student has completed most of the course work at an acceptable level, but is prevented from completing the course due to *extraordinary* circumstances. If you think an I may be warranted, you must talk to the instructor *before* the final exam. Note that a grade of I cannot be made up by taking the course again.

Academic honesty and collaboration: You are required to abide by all KU policies on academic integrity. Cheating, plagiarism or other academic misconduct will result in a failing grade on the assignment in question, and usually further disciplinary sanctions, possibly including a failing grade in the course.

You are encouraged to collaborate with other students on the homework assignments. However, *intellectual honesty requires that each student write up his or her own solutions and acknowledge all collaborators.* Copying someone else's homework, or letting someone else copy yours, is considered to be a form of cheating.

For more information on academic honesty issues, see www.ku.edu/~stlife/academics.shtml.

Students with disabilities: The KU Office of Disability Resources (22 Strong Hall; 785-864-2620 (V/TTY); www.ku.edu/~ssdis/) coordinates accommodations and services for all students who are eligible. If you have a disability for which you wish to request accommodations, please contact Disability Resources as soon as possible. Please also contact me privately in regard to your needs in this course.

Intellectual property: Course materials prepared by the instructor, together with the content of all lectures and review sessions, are the intellectual property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. Upon reasonable request, the instructor will usually grant permission to record lectures, on the condition that such recording is used only as a study aid by the student making the recording, and is not modified or distributed in any way.