Math 2270 - Linear Algebra

Instructor: Scott Crofts

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Office Hour: TBA

Also feel free to drop by anytime or make an appointment.

Text: *Linear Algebra with Applications*, 3rd edition, by Otto Bretscher.

Prerequisites: Math 1220 (2nd semester calculus) or equivalent.

Rough Topic List:

- Linear Equations and Transformations (Chapters 1-2)

- Linear Structure of $\mathbb{R}^n$ (Chapter 3)

- Linear Spaces (Chapter 4)

- Inner Product Spaces (Chapter 5)

- Determinants, Eigenvalues, and Eigenvectors (Chapters 6-7)

- Additional Topics

Homework: Homework will be assigned in class on a regular basis (probably daily). I will also post homework assignments on the course website. If you miss a class, you should check the website for the sections that were covered and the corresponding homework assignment. I may occasionally collect your homework as well.

Quizzes: Short (10-15 minutes), in-class quizzes will be given on (most) Wednesdays. The quizzes will be based on homework and examples discussed in class. If you are keeping reasonable pace with the course and understanding your homework, the quizzes will look familiar. No make up quizzes will be given, however I will drop your lowest quiz grade (or perhaps grades, depending on how many quizzes we end up having).

Exams: There will be three in-class exams (see dates below) and a comprehensive final exam. The content of each exam will be discussed in class and will depend on the material covered. For students with conflicts, makeup exams are allowed provided they are taken ahead of time. Makeup exams after the exam date will only be given in extreme circumstances. Participants in University sponsored activities that prevent those students from being in class, or students with disabilities falling under the ADA should inform me of conflicts early in the semester.

Exam Dates:

- Exam 1: Wednesday, September 24th (in class)

- Exam 2: Wednesday, November 5th (in class)

- Exam 3: Monday, December 8th (in class)

- Final Exam: Wednesday, December 17th (8:00am–10:00am)

Course Grade: The grading for this class is:
- Quizzes/Homework   - 20 %
- Exams   - 50 %
- Final   - 30 %

Calculators: Calculators will (almost certainly) not be allowed for quizzes and exams.

Nondiscrimination and Disability Access Statement: The University of Utah is fully committed to policies of nondiscrimination and equal opportunity, and vigorously pursues affirmative action in all programs, activities, and employment with regard to race, color, national origin, sex, age, and status as a person with a disability. Religion, sexual orientation, and status as a disabled veteran or veteran of the Vietnam era also are protected under nondiscrimination and equal opportunity employment policies. The University seeks to provide equal access to its programs, services and activities for people with disabilities. Reasonable prior notice is needed to arrange accommodations. Students should call 801-581-5020 or 801-585-1813 (both are TDD). Evidence of practices not consistent with these policies should be reported to the Employee Relations/Dispute Resolution Office, 801-581-8365 (voice or TDD). If you require special accommodations under the ADA please inform me through official channels early in the semester.

Disclaimer: This syllabus has been created as a preview to the course and I don't expect to have to change it. However, I do reserve the right to make reasonable changes to the above policies. Such changes will be announced in class and the most current (and official) version of the syllabus will be available on the course website.