Math 330.003 Linear Algebra

Course Description

Systems of linear equations; matrix algebra; vector spaces: linear independence, bases, dimension, vector subspace configuration; linear maps, their matrix representations and structure theorems. Prerequisite: MATH 283.

Instructor

Dr Eric Olson
Ansari Business Building AB614
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Office Hours

MW 2–3pm, F 1–2pm, and by appointment. If I'm in my office and you don't have an appointment, I can almost always take 15 minutes to answer a question.

Texts

1. *Introduction to Linear Algebra*, Gilbert Strang, Third Edition, Wellesley–Cambridge Press, 2003.
2. *Elementary Linear Algebra*, K.R. Matthews, Second Online Version, 1998.

Grading

4 Quizzes	15 points each
1 Midterm	50 points
1 Final	80 points
8 Homework Assignments	10 points each
	270 points total

Topics Covered

We will cover the material from chapters 1–6 of the first text and chapters 1–6 and 8 from the second. The lectures will most closely follow the second text. Topics include linear equations, matrices, subspaces, determinants, complex numbers, eigenvalues, eigenvectors and the singular value decomposition.

Equal Opportunity Statement

The Mathematics Department is committed to equal opportunity in education for all students, including those with documented physical disabilities or documented learning disabilities. University policy states that it is the responsibility of students with documented disabilities to contact instructors during the first week of each semester to discuss appropriate accommodations to ensure equity in grading, classroom experiences and outside assignments.

Academic Conduct

Bring your student identification to all exams. Work independently on all exams and quizzes. Behaviors inappropriate to test taking may disturb other students and will be considered cheating. Don't talk or pass notes with other students during an exam. Homework may be discussed freely. If you are unclear as to what constitutes cheating, please consult with me.