MAS 4105: Linear Algebra I **Spring 2024**

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Office hours: 3rd and 7th periods Mondays, 3rd period Wednesdays, or by appointment.

Meeting Times

MTWF 12:50–1:40 in Matherly 11

Textbook

Linear Algebra (5th Edition) by Friedberg, Insel, and Spence
I don't recommend the Kindle version, which may render some symbols incorrectly.

Syllabus

This course is a rigorous introduction to linear algebra. Precise statements and careful proofs will be emphasized. The topics we will be studying (vector spaces, linear transformations, matrix operations, systems of linear equations, determinants, diagonalization, and inner product spaces) are covered in the first six chapters of the textbook.

Homework

I will assign homework problems each week to be collected and graded. Solutions to these problems will be distributed after the homework has been collected. Late homework will not be accepted. I will also assign some homework problems which will not be collected or graded. You should certainly do these problems as well, since exam questions may be based on them.

Exams

Friday, February 2 (in class)
Friday, March 1 (in class)
Friday, April 5 (in class)
Tuesday, April 30, 3:00–5:00 (final)

Grading

Each in-class exam is worth 20% of your final grade, the final is worth 40%, and the homework is worth 20%. I will drop your lowest in-class exam score (or half of your final exam) to make the total add up to 100%. Your class average x will be converted into a letter grade as follows:

$90 \le x \le 100$: A	$85 \le x < 90$: A−	$80 \le x < 85$: B+
$75 \le x < 80$: B	$70 \le x < 75$: B−	$65 \le x < 70$: C+
$60 \le x < 65$: C	$55 \le x < 60$: C−	$50 \le x < 55$: D+
$45 \le x < 50$: D	$40 \le x < 45$: D−	$0 \le x < 40$: E