

# Math 2210: Applied Linear Algebra

## Summer 2025 (July 14 – August 15, 2025)

Instructor: Rohan Sarkar

**E-mail:** rohan.sarkar@uconn.edu

**Textbook:** *Linear Algebra and Its Applications*, 6th edition, by David Lay, Stephen Lay and Judi McDonald.

### Format of Course Lectures

You will watch asynchronous Lecture Videos by UConn Professor Tom Roby: <https://kaltura.uconn.edu/channel/Math%2B2210Q/168885461>. Requires UConn NetID: <https://www2.math.uconn.edu/~troby/math2210sum24/index.php>

**Class Webpage:** <https://huskyct.uconn.edu> (Login using your UConn NetID and access MATH-2210Q).

**Lecture Slides:** Available on HuskyCT. Read them along with the textbook.

### Virtual Office Hours/Problem Solving Sessions

Monday, Tuesday, Wednesday, Thursday (10 am - 11 am via Webex)

**Webex link:** <https://uconn-cmr.webex.com/meet/ros22006>

**Access code:** 2622 258 4050

Appointments available upon request.

### MyLab Math

All assignments, quizzes, and exams are through Pearson's MyLab Math. Access via UConn bookstore is required.

### Course Description

Introduction to techniques of linear algebra with elementary applications, covering:

- Linear systems, row operations
- Linear independence, subspaces, spanning sets
- Inner products, orthogonality, determinants, inverses

- Gram-Schmidt, spectral theorem, least squares
- Eigenvalues, eigenvectors, diagonalization, linear transforms

**Prerequisites:** MATH 1132, 1152, or 2142. Recommended: grade C or better in MATH 1132. Not for students with credit in MATH 3210.

## Quizzes

- Two quizzes weekly via MyLab Math
- Covers asynchronous lecture material
- No make-ups. Lowest quiz score dropped
- 24 hours to complete each quiz

## Exams

- Two midterms: July 29 and August 15, 2025 (3 pm – 4:30 pm)
- Administered via MyLab Math with Lockdown Browser
- No final exam
- Camera must be on during exams

## Homework

Not collected but necessary for understanding and exam preparation. Group collaboration encouraged.

## Make-Up Policy

No quiz make-ups. Exam make-ups require medical documentation. Student athletes must notify during week 1.

## Special Accommodations

Provide documentation from CPIA or CSD for necessary exam arrangements.

## Grading

- Quizzes: 30%
- Midterms: 35% each (70% total)

## Letter Grade Conversion

A: 93–100	B–: 80–82.99
A–: 90–92.99	C+: 76–79.99
B+: 87–89.99	C: 73–75.99
B: 83–86.99	C–: 70–72.99
D+: 67–69.99	D: 63–66.99
D–: 60–62.99	F: below 60

## Calculators

Permitted for homework. Not allowed on quizzes/exams unless announced otherwise.

## Academic Integrity

Follow the University's Academic Integrity Policy: <http://provost.uconn.edu/syllabi-references/>

## Other Resources

Help available at the Q-Center: <http://qcenter.uconn.edu/Tutoring/tutoring.php>

## Disclaimer

The instructor may make syllabus changes when academically advisable. Students are responsible for keeping up.

## Tentative Course Schedule

Week	Sections
July 14–July 18	1.1–1.5, 1.7–1.9
July 21–July 25	2.1–2.3, 3.1–3.3
July 28–Aug 1	4.1–4.6
Aug 4–Aug 8	5.1–5.4, 6.1–6.2
Aug 11–Aug 15	6.3–6.4, 7.1–7.4