

MATH 2210 Q, Applied Linear Algebra
University of Connecticut
Summer 2026

Instructor:

Vasileios Chousionis

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Virtual Office Hours: By appointment

Lectures: The course lectures will be asynchronous. Lecture videos and lecture slides are posted on Husky CT.

Textbook: David C. Lay, Judi J. McDonald, Steven R. Lay : *Linear Algebra and Its Applications* (6th edition **Including MyLab**). It's absolutely necessary to obtain MyLab access, **HOMEWORK WILL ONLY BE ASSIGNED ON MYLAB**.

Course Description: Linear systems of equations and row operations; linear independence, subspace, and spanning sets; inner products, orthogonality, determinants and inverses; Gram-Schmidt procedure, spectral theorem; least squares approximation and data fitting; eigenvalues and eigenvectors, diagonalization; vector spaces, linear transforms.

Prerequisites: The official prerequisites are MATH 1132, 1152, or 2142. Recommended Preparation: a grade of C- or better in MATH 1132. Not open for credit to students who have passed MATH 3210. In particular, you should be comfortable with trigonometric identities, derivatives and integrals of functions, the chain rule, the product rule, the quotient rule, and solving related rate problems.

Exams: There will be two asynchronous online midterm exams. The first midterm will take place on **Wednesday July 29** and the second midterm will take place on **Friday August 14**. The tests will appear on Husky CT on these dates. You will be able to start the exam anytime between 5AM and 10PM. From the moment you open the exam you will have 90 minutes to write down your solutions and upload them on Husky CT on PDF. There will be NO FINAL. If you have a *legitimate and documented* conflict with the scheduled times for the midterms, you must let me know within the first week of class in order to consider your situation.

Homework: Weekly homework will be assigned via MyLabMath.

Grading Policy: Grades will be determined as follows:

- (H) Homework: 40 %
- (M1) Midterm 1: 30%
- (M2): Midterm 2: 30%

Academic Honesty: <http://community.uconn.edu/academic-integrity-undergraduate-faq/>