

MATH 2210 Q, Applied Linear Algebra
University of Connecticut
Summer 2023

Instructor:

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Office Hours: Tuesday and Thursday 9:00-10:00.

Class Webpage: Go to <https://huskyct.uconn.edu>. Click on “Login” and sign in using your UConn NetID and password. Click on “MATH-2210Q-Applied Linear Algebra-SEC11-1235”.

Lectures: The course lectures will be asynchronous. Lecture videos and lecture slides will be 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, **ALL HOMEWORK WILL 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 PROCTORED synchronous online midterm exams on **06/13** and **06/30**. 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 two weeks 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/>