MATH 2210Q Section 7 Applied Linear Algebra
Fall 2025

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Office: Monteith 323
Office hours: TBD, or by appointment

Course Webpage: See HuskyCT.

Textbook: *Linear Algebra and its Applications* by David C. Lay, Steven R. Lay, Judi J. McDonald, sixth edition (preferably) Pearson

It is highly recommended that you buy this book.

It is recommended that you buy the access code, but not required. We will not use MyMathLab for homework, though it could be a good source of practice problems.

Course Content: Systems of equations, matrices, determinants, linear transformations on vector spaces, characteristic values and vectors, from a computational point of view. The course is an introduction to the techniques of linear algebra with elementary applications.

The minimum material covered will be sections 1.1-1.5, 1.7-1.9, 2.1-2.3, 3.1-3.3, 4.1-4.7, 5.1-5.4, 6.1-6.4 in the book.

Course Organization: Two meetings per week, TTh 9:30 – 10:45am in Monteith 419.

Homework: There will be 12 weekly assignments, posted on HuskyCT. The due date will be specified for each, usually the Friday of next week.

Your two lowest homework scores will not count towards your grade.

Homework is the best way to stay up-to-date with the material, and the best indicator for how well you are doing in class at any given moment. I encourage you to collaborate with your classmates and to ask me for hints, but hand in your own copy of the assignment. Identical copies are a violation of the expected standard of academic integrity.

The course is not heavy on proofs, but there will be a few proof based problems. They may require some ingenuity. The ingredients will be all there in the lectures or previous homework, but it will be up to you to select the relevant ones and mix them together.

To submit an assignment, it is perfectly acceptable to e-mail me picture scans of your work. Most smartphones have apps that can scan documents and they look better than

pictures, but pictures are also okay if they are legible. Some tablet apps can also help produce beautiful assignments.

Final score and course grade: The components of the **final score** and their weights are as follows:

- Homework 30%
- Midterm 1 20%
- Midterm 2 20%
- Final 30%

All tests and assignments have 10% extra credit built in. For example the point values for problems on HW will add up to 11, but 10 will be considered perfect.

The midterms will be administered in class at a date to be announced on HuskyCT. For any approved CSD extra time, make arrangements to take the test at CSD.

The final will be set **during the finals week**. The precise date and location are determined by the registrar and will be posted on Student Admin. The final is cumulative, but the emphasis is on the material not tested by the midterms.

Your course grades will be decided based on the distribution of final scores, aiming for a B+ median score, with about 50% of the students scoring in the B,B+,A- range. Grades are usually rounded up to produce clear gaps between different grade brackets. 50% of the score is expected to be sufficient for passing.

Students with Disabilities. The Center for Students with Disabilities (CSD) at UConn provides accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations and have not contacted the CSD, please do so as soon as possible. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the accommodations process is also available on their website at `www.csd.uconn.edu`.

Academic integrity: The work you do in this course should reflect your honesty and integrity. UConn's complete policy on academic integrity can be found at `http://community.uconn.edu/the-student-code-appendix-a/`.