MATH 2210Q 010 – Syllabus

Basic Information

Number of Credits: 3
Prerequisites: MATH 1132Q. Recommended preparation: a grade of C− or better in MATH 1132Q.
Meeting: Monday/Wednesday/Friday 8:00 – 8:50 in MONT 112.
Instructor: Ryan Schroeder, ryan.schroeder@uconn.edu
Office Hours: Mondays 11:30 – 12:30 and Tuesdays 1:00 – 2:00 in MONT 126, or by appointment (please try to give at least 24 hours notice, if not more).

Learning Objectives

1. Solve systems of linear equations using row reduction and echelon forms.
2. Compute matrix operations and realize matrices as linear transformations.
3. Know the axioms of a vector space and determine properties of a given vector space.
4. Compute determinants of square matrices and understand what information they can tell us.
5. Give proofs or counterexamples for statements regarding invertability, diagonalization, and determinants.
6. Compute the eigenvalues and eigenvectors of linear transformations.

Textbook

The textbook for this course is *Linear Algebra and its Applications, Sixth Edition* by Lay, Lay, and McDonald. It is available from the University bookstore.

Homework

Every other Friday, a new homework assignment will be given. The due date will be in two weeks. Each assignment will consist of both calculations and more conceptual questions. Since you have two weeks to complete each homework, some of the material may not be covered in lecture until the week after each is assigned. You are free to discuss the homework with classmates, but your submission must be your own work.

Quizzes

A quiz will be administered every Friday that a homework is not assigned (so every other Friday). The quizzes will be graded for correctness. At the end of the semester, your lowest quiz grade will be dropped. If you must miss a quiz, be sure to email me before the start of class so that you can receive a makeup.

Quiz Correct & Reflect

Quizzes will be returned on Wednesday. The Correct & Reflect portion found on the back of the quiz (or on a separate handout) is due the following Monday. Even if the quiz received full marks, you still must complete the Reflection to receive full credit. One Correct & Reflect grade will be dropped at the end of the semester.

Midterm Exams

There will be two midterm exams for this course. Exam 1 will be on Wednesday March 5, and Exam 2 will be on Wednesday April 23. Each exam will be 50 minutes in length and will be cumulative. As with quizzes, if you must miss an exam, be sure to email me before the start of class to ensure that you can receive a makeup.

Final Exam

A cumulative two-hour final exam will be given at our class's final exam time. I will post an announcement when this is determined. If you score higher on your final exam than the lower of your two midterm exam grades, your final exam score will replace that midterm exam score.

Grading Scheme

Homework	15%
Quizzes	10%
Quiz Correct & Reflect	10%
Midterm Exam 1	20%
Midterm Exam 2	20%
Final Exam	25%
Total	100%

Attendance Policy

Outside of the dates of quizzes and exams, attendance is not mandatory. However, if you miss class, you are expected to recover the notes from a classmate, office hours, or the textbook.

Email Policy

I try to get back to student emails within 1 full business day. If I do not do this, it is possible that I lost your email in my inbox, so feel free to send me a reminder.

University Policies

- Policy Against Discrimination, Harassment, and Related Interpersonal Violence: The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate amorous relationships can undermine the University's mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity (OIE). Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help.An exception to this reporting exists if students disclose information as a part of coursework submitted to an instructor in connection with a course assignment. Even in the absence of such obligation, all Employees are encouraged to contact OIE if they become aware of information that suggests a safety risk to the University community or any member thereof. The University takes all reports with the utmost seriousness. More information, including resources and reporting options, is available at equity.uconn.edu and titleix.uconn.edu.
- Student Conduct Code: Students are expected to conduct themselves in accordance with UConn's Student Conduct Code.
- Academic Integrity Statement: This course expects all students to act in accordance with the Guidelines for Academic Integrity at the University of Connecticut. Because

questions of intellectual property are important to the field of this course, we will discuss academic honesty as a topic and not just a policy. If you have questions about academic integrity or intellectual property, you should consult with your instructor. Additionally, consult UConn's guidelines for academic integrity.

- Copyright: My lectures, notes, handouts, and displays are protected by state common law and federal copyright law. They are my own original expression and I've recorded them prior or during my lecture in order to ensure that I obtain copyright protection. Students are authorized to take notes in my class; however, this authorization extends only to making one set of notes for your own personal use and no other use. I will inform you as to whether you are authorized to record my lectures at the beginning of each semester. If you are so authorized to record my lectures, you may not copy this recording or any other material, provide copies of either to anyone else, or make a commercial use of them without prior permission from me.

- Students with Disabilities: The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020, or csd.uconn.edu.