

**Math 2210Q Syllabus
Fall 2016**

Instructor: Jeffrey Connors

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Course webpage: www.math.uconn.edu/~connors/math2210f16/index.html

Office: ACD 114C

Office hours: MW 3:15-4:15 PM, or by appointment. Also, video-chat sessions may be possible (talk to me if you are interested in this option).

Class time and room: MWF 11:15 AM - 12:05 PM in ACD 304

Text: *Linear Algebra and its Applications*, Fifth Edition, by D. Lay, S. Lay and J. McDonald.
Note: students may also use the fourth edition.

Homework: Homework will be assigned for each lecture and collected each Wednesday of the following week. Late homework is penalized at rate of 10% once late, with an **additional** 10% deduction for each full week that passes after the due date. Example 1: you turn it in the day after it is due, then there is a 10% deduction for lateness. Example 2: you turn it in the following Wednesday, 1 week after it was due. Then there is a total 20% deduction for lateness.

Quizzes: No quizzes.

Calculators: The use of calculators will not be permitted on exams. Calculators may be used on homework.

Grading policy: The course grade is 40% homework, 15% exam 1, 15% exam 2 and 30% for the final exam.

Make-up exams: These will only be available with permission granted prior to the start of the exam. There must be extenuating circumstances to receive permission for a make-up exam.

Final exam: The final exam is scheduled for Wednesday, Dec. 14 from 10:30 AM-12:30 PM in ACD 304. **The exam is cumulative.**

Dates	Book Sections	Topics
Aug. 29-Sept. 2	1.1, 1.2	Systems of linear equations, row reduction, echelon forms
Sept. 5		Labor Day - no class
Sept. 7, 9	1.3, 1.4	Vector equations, matrix form
Sept. 12-16	1.5, 1.7	Solution sets, linear independence
Sept. 19-23	1.8, 1.9	Linear transformations
Sept. 26-30	1.10, 2.1	Linear models, matrix operations
Oct. 3-7	2.2, 2.3	Inverse matrices
Oct. 10	—	Review for Exam 1
Oct. 12	—	Exam 1
Oct. 14	3.1	Determinants
Oct. 17-21	4.1, 4.2	Vector spaces and connections to linear transformations
Oct. 24-28	4.3, 4.4	Linear independence, bases, coordinate systems
Oct. 31 -Nov. 4	4.5, 4.6	Dimension and rank
Nov. 7-11	5.1, 5.2	Eigenvectors, eigenvalues, characteristic equation
Nov. 14	5.3	Diagonalization
Nov. 16	—	Review for Exam 2
Nov. 18	—	Exam 2
Nov. 21-25		Thanksgiving break - no class
Nov. 28 - Dec. 2	6.1, 6.2	Inner products, orthogonality, orthogonal sets
Dec. 5	6.4	Gram-Schmidt process
Dec. 7	6.4	Finish 6.4, begin review for final
Dec. 9	—	Review for Final Exam