Math 2210Q Syllabus Fall 2019

Instructor: Jeffrey Connors

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Office hours: Monday/Wednesday 3:15-4:15 PM and Tuesday 2:00-3:00 PM, but you can always drop in to see if I am available, or e-mail to set up an appointment.

Class time and room: T/Th 12:30 PM - 1:45 PM in ACD 311

Text: Linear Algebra and its Applications by Lay, Lay and McDonald, Fifth Edition.

Homework: Homework will be assigned for each section and collected according to the schedule shown below. Late homework is penalized at a 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 class after it is due, then there is a 10% deduction for lateness. Example 2: you turn it in the following Thursday, 1 week after it was due. The total deduction is still 10%. Example 3: you turn it more than 7 days late, less than two weeks late. 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 30% homework, 20% exam 1, 20% 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: I will update this when I receive the information. The exam is cumulative.

Dates	Book Sections		Topics		
Aug. 27, 29	1.1, 1.2		Systems of linear equations, row reduction, echelon forms		
Sept. 3, 5	Sept. 3, 5 1.3, 1.4		Vector equations, matrix form		ix form
Sept. 10, 12	Sept. 10, 12 1.5, 1.7		Solution sets, linear independence		pendence
Sept. 17, 19	ot. 17, 19 1.8, 1.9		Transformations		;
Sept. 24, 26	26 1.10, Exam 1 revie		Linear models, matrix operations, review 1.1-1.9		
Oct. 1			Exam 1		
Oct. 3	2.1		Matrix operations		
Oct. 8, 10	2.2, 2.3		Matrix operations, inverse matrices		
Oct. 15, 17	4.1, 4.2		Vector spaces and connections to linear transformations		
Oct. 22, 24	4.3, 4.4		Linear independence, bases, coordinate systems		
Oct. 29, 31	4.5, Exam 2 review		Dimension, review 1.10-4.4		
Nov. 5			Exam 2		
Nov. 7	4.6		Rank		
Nov. 12, 14	5.1, 5.2		Eigenvectors, eigenv		
Nov. 19, 21	5.3, 6.1			nner products, orthogonality	
Nov. 26, 28				ing break - no class	
Dec. 3, 5	6.2, 6.4, final rev	iew	Orthogonal sets, Gram-Schmidt process		
Dec. ???			F	inal Exam	
HOMEWORK:	Book Section		Problems	Due date	
	1.1		1, 3, 10, 13, 22, 24	Sept. 5	
	1.2		1, 3, 7, 8, 19, 21, 22	Sept. 5	
	1.3		1, 6, 9, 12, 14, 21, 26	Sept. 12	
	1.4	6,	7, 9, 12, 22, 24, 25, 40	Sept. 12	
	1.5		2, 6, 12, 23	Sept. 19	
	1.7		5, 8, 9, 15, 20, 22, 33, 34	Sept. 19	
	1.8		2, 4, 7, 11, 16, 19, 20	Sept. 26	
	1.9		1, 2, 3, 6, 8, 19, 27	Sept. 26	
	1.10		2, 3, 9, 11	Oct. 3	
	2.1	1, 4	4, 7, 9, 12, 16, 21, 22, 27	Oct. 10	
	2.2		3, 4, 6, 10, 26, 31, 32	Oct. 17	
	2.3		2, 4, 8, 12, 15	Oct. 17	
	4.1	2,	3, 8, 10, 12, 14, 16, 18	Oct. 24	
	4.2	1,	3, 5, 16, 18, 22, 24, 26	Oct. 24	
	4.3	2,	4, 6, 8, 10, 14, 19, 22	Oct. 31	
	4.4		3, 7, 8, 12, 14	Oct. 31	
	4.5		4, 6, 8, 14, 16, 20	Nov. 7	
	4.6	1,	4, 6, 8, 12, 15, 16, 18	Nov. 14	
	5.1		3, 4, 8, 9, 13, 14, 18	Nov. 21	
	5.2		2, 4, 14, 16	Nov. 21	
	5.3		2, 4, 6, 8, 10, 12	Dec. 3	
	6.1	-	2, 4, 8, 10, 16, 18, 22	Dec. 3	
	6.2		2, 6, 10, 14	Dec. 5	