

Math 270		Proposed Timeline				Fall 2010
Day	Date		Topic	Assignment	Important Dates	
1	M	30-Aug	1.1	Systems of Linear Equations	# 4, 7, 11, 14, 17, 18, 20, 25, 31, 32, 34, 35	
			1.2	Matrices	# 3, 4, 7, 8, 11, 12, 13, 16, 18, 19, 20, 21	
		1-Sep	1.3	Matrix Multiplication	# 4, 5, 12, 16, 17, 21, 30, 31, 43, 48, 49, 52	
2	W		1.4	Algebraic Properties of Matrix Operations	# 3, 7, 8, 16, 19, 20, 23, 24, 25, 30, 33, 38	
	M	6-Sep	<i>No classes</i>	<i>Labor Day Holiday</i>		
3	W	8-Sep	1.5	Special Types of Matrices and Partitioned Matrices	# 7, 22, 29, 30, 32, 34, 35, 37, 40, 41, 49, 52	LDTP add permits is 9/10
			1.6	Matrix Transformations	# 5, 8, 12, 13, 15-22, all	
4	M	13-Sep	2.1	Echelon Form of a Matrix	# 4, 5, 6, 7, 8, 9, 11, 12	LDTD w/out incurring fees is 9/13
			2.2	Solving Linear Systems	# 5, 9, 12, 21, 22, 29, 30, 32, 33, 36, 39, 42	
5	W	15-Sep	2.3	Elementary Matrices: Finding A^{-1}	# 3, 4, 5, 7, 8, 12, 15, 18, 24, 25, 27, 30	
			2.4	Equivalent Matrices	# 2, 5-11 all	
			2.5	LU -Factorization	# 1, 2, 3, 6, 7, 8	
6	M	20-Sep	3.1	Definition of Determinant	# 3, 4, 6, 7, 9, 11, 14, 16	
			3.2	Properties of Determinants	# 1,4,6,7,8,9,13,14,15,20,22,23,25,28,31,34	
7	W	22-Sep	3.3	Cofactor Expansion	# 2, 3, 7, 8, 12, 13, 14, 15, 16, 19	
			3.4	Inverse of a Matrix	# 2, 4, 6, 8, 9, 11, 13, 14	LD for Cr/NCr Petition is 9/24
8	M	27-Sep	3.5	Other Applications of Determinants	# 1-7 all	LDTD w/out a "W" is 9/26
				Review for Exam 1		
9	W	29-Sep	Exam 1	Chapters 1, 2 and 3		
10	M	4-Oct	4.1	Vectors in the Plane and 3-Space	# 3, 4, 5, 10, 12, 13, 14, 15, 16, 19	
			4.2	Vector Spaces	# 2, 3, 4, 9, 11, 12, 15, 18, 24, 25	
11	W	6-Oct	4.3	Subspaces	# 6,10,12,15,17,18,19,20,29,31,34,35,37,38	
12	M	11-Oct	4.4	Span	# 2, 5, 6, 8, 11, 13, 15, 16	
			4.5	Linear Independence	# 4, 5, 8, 11, 14, 17, 19, 20, 23, 26	
13	W	13-Oct	4.6	Basis and Dimension	# 1, 4, 11, 14, 17, 20, 29, 30, 32, 49	
14	M	18-Oct	4.6	Basis and Dimension (continued)		
			4.7	Homogeneous Systems	# 2, 6, 9, 12, 15, 19, 22, 23	
15	W	20-Oct	4.8	Coordinates and Isomorphism	# 3,8,11,14,15,21,24,27,32,35,36,42	
16	M	25-Oct	4.9	Rank of a Matrix	# 3,6,9,12,15,16,18,25,26,30,31,36,39,41,46	
				Review for Exam 2		
17	W	27-Oct	Exam 2	Chapter 4		
18	M	1-Nov	5.1	Length and Direction in R^2 and R^3	# 4, 10, 11, 13, 18, 22, 27, 29, 32, 35, 37, 38	
			5.2	Cross Product in R^3	# 2, 5, 13, 14, 15, 18, 21, 23, 24, 26, 28, 29	
19	W	3-Nov	5.3	Inner Product Spaces	# 3, 10, 12, 15, 18, 19, 20, 23, 27, 30, 32, 35, 36, 43	
20	M	8-Nov	5.4	Gram-Schmidt Process	# 2, 3, 5, 8, 11, 14, 17, 22, 25, 28, 32, 33	
21	W	10-Nov	No Class			
22	M	15-Nov	6.1	Definition and Examples of Linear Transformations	# 2, 3, 6, 9, 10, 11, 12, 13, 18, 21, 22, 23, 25, 32, 34, 39	
23	W	17-Nov	6.2	Kernel and Range of a Linear Transformation	# 5, 8, 13, 15, 16, 17, 20, 23, 26, 28	LDTD with a "W" is 11/21
24	M	22-Nov	6.3	Matrix of a Linear Transformation	# 3, 7, 9, 11, 14, 18, 20, 22	
			6.5	Similarity	# 1, 5, 6, 7, 8, 9, 10, 11, 15, 17	
25	W	24-Nov	7.1	Eigenvalue and Eigenvectors	# 3, 6, 8, 9, 14, 17, 19, 21, 22, 25, 28, 32	
26	M	29-Nov	7.2	Diagonalization and Similar Matrices	# 7, 10, 12, 15, 16, 17, 19, 22, 25, 28	
27	W	1-Dec	Exam 3	Chapters 5 and 6		
28	M	6-Dec	7.3	Diagonalization of Symmetric Matrices	# 1, 2, 3, 4, 9, 14, 20, 27	
29	W	8-Dec		Review for Final Exam		Last Day of Class Instruction
	W	15-Dec	FINAL EXAM	Chapters 1 to 8; 8:00 - 10:00		