

Syllabus week day	Math 2940 read	Linear Algebra subject	Spring 2014 problems
1-----			
M 1/20		NO CLASS	
W 1/22	1.1	Linear systems	14,12,22,33,34
F 1/24	1.2	Row reduction	29,30
2-----			
M 1/27	1.3	Vector equations	13,14
W 1/29	1.4	$Ax=b$	15,16,31
F 1/31	1.5	Solution sets	24,26,27,32,40
3-----			
M 2/3	1.6	Applications	12,13,15
W 2/5	1.7	Linear independence	10,12,14,16,18,20,22,32
F 2/7	1.8	Linear transformation	10,12,18,22,26
4-----			
M 2/10	1.8	" "	31,36,40
W 2/12	1.9	Matrix of linear transf.	14,18,22,24,35,36
F 2/14	1.10	Linear Models	8,12,14
5-----			
M 2/17		FEBRUARY BREAK	
W 2/19		REVIEW	
Th2/20		PRELIM no.1 THURSDAY Feb.20 7:30 PM	
F 2/21	2.1	Matrix Operations	9,16,18,26,27,33
6-----			
M 2/24	2.2	Matrix inverse	4,6,19,32,33,35
W 2/26	2.8	Subspaces	6,8,18,22,24,36
F 2/28	2.9	Dimension and rank	6,8,10,14,18,30
7-----			
M 3/3	4.1	Vector spaces	8,11,19,20,22,24
W 3/5	4.2	Null and column spaces	6,24,26,28,31,32,33
F 3/7	4.3	Linear independence,basis	12,14,22,33,37
8-----			
M 3/10	4.4	Coordinates	4,10,12,14,16,18,20,32,37
W 3/12	4.5	Dimension	6,16,18,22,24
F 3/14	4.6	Rank	4,5,12,16,18,20,28,29,30
9-----			
M 3/17	4.8	Difference equations	1,2,19,20
W 3/19	4.9	Markov chains	3,4,7,18
F 3/21	3.1	Determinants	10,12,42
10-----			
M 3/24	3.2	Determinants	6,8,24,28,34,40
W 3/26	3.3	Cramer's Rule	6,8,12,18,24,30,31
F 3/28		CATCH-UP	
11-----			
M 3/31		SPRING BREAK	
W 4/2		SPRING BREAK	
F 4/4		SPRING BREAK	
12-----			
M 4/7	5.1	Eigenvalues	6,13,14,20,22,32,35
W 4/9	5.2	Characteristic equation	16,18,22,24,27
F 4/11	5.3	Diagonalization	6,14,22,24,27,31
13-----			
M 4/14	5.4	Linear transformations	4,6,8,10,12,16,18
W 4/16		REVIEW	
Th4/17		PRELIM no.2 THURSDAY April 17 7:30 PM	
F 4/18	5.5	Complex eigenvalues	6,10,26
14-----			
M 4/21	5.7	Differential equations	1,6,8,9
W 4/23	6.1	Inner product	12,14,18,22,24,29
F 4/25	6.2	Orthogonal sets	10,14,16,22,24,26,30
15-----			
M 4/28	6.7	Inner prod. for functions	4,16,17,22,24
W 4/30	6.8	Fourier series	5,10,13,14
F 5/2	7.1	Symmetric matrices	14,18,23,31,32
16-----			
M 5/5		handout Fredholm Alternative	HW to be assigned
W 5/7		REVIEW	
F 5/9		NO CLASS	