

Math 70-02 Linear Algebra Fall 2016				
	Date	Sections	Topics	Assignment
1	9/6	1.1	Linear Systems	1.1/p.10: 1,3,7,11,13,15,17,19,21,24,25,27
2	9/8	1.2	Row Reduction	1.2/p.21: 1,2,7,9,11,13,19,21,22,25,27,28
3	9/12	1.3	Vector Equations	1.3/p.32: 1,3,5,7,9,11,13,15,17,21,22,25,33
4	9/13	1.4	Matrix Eq. $Ax = b$	1.4/p.40: 1,2,3,4,7,9,11,13,15,17,19,22,23,31
5	9/15	1.5	Solution Sets	1.5/p.47: 2,5,7,9,11,13,19,23,25,27,40
6	9/19	1.7	Linear Independence	1.7/p.60: 1,3,5,7,9,11,13,27,28,29,30
7	9/20	1.7	Linear Independence	1.7/p.60: 15,17,32,33,34,35,36,37,38,39,40
8	9/22		Proof techniques	
9	9/26	1.8	Linear Transformations (LT's)	1.8/p.68: 1,2,3,5,7,9,11,13,15
10	9/27	1.8/1.9	LTs and Matrix of LT	1.8/p.68: 17,20,21,28,31,34,35 1.9/p.78: 1,2,3,4,5,6,11
11	9/29	1.9	Matrix of a Linear Trans.	1.9/p.78: 17,19,25,27,29,31,32,34,35
12	10/3	2.1	Matrix Operations	2.1/p.100: 4,5,8,9,10,12,15,18,19,21,22,27
13	10/4	2.2	Matrix Inverses	2.2/p.109: 1,5,8,11,14,22,24,31,32
14	10/6	2.3	Matrix Facts	2.3/p.115: 3,13,21,28,30
15	10/11	3.1	Determinants	3.1/p.167: 1,5,9,19,21,33,37,38
16	10/13	3.2/4.1	Determinants, Vect. Spaces	3.2/p.175: 1,3,5,7,15,21,24,29,32,34,35
17	10/17		Exam I Review	
	10/17	EXAM I	Covers lessons 1-14	12:00-1:20 in a room TBA
18	10/18	4.1	Vector Spaces	4.1/p.195: 1,2,4,5,9,11,13, 21,23
19	10/20	4.1/4.2	Vector Spaces, Null/Col Sp.	4.1/p.195: 25,26,27,28,29,30,32
20	10/24	4.2	Null/Col Spaces	4.2/p.205: 1,3,5,7,9,12,13,17,23,25
21	10/25	4.2/4.3	LTs, Bases	4.2/p.205: 28,29,30,31,32,34,35
22	10/27	4.3	Bases	4.3/p.213: 1,3,5,7,9,11,13,20,21,32
23	10/31	4.4	Coordinate Systems	4.4/p.222: 1,3,5,7,9,11,13,17
24	11/1	4.4	Coordinate Systems	4.4/p.222: 15,19,23,24,25,27,28,31
25	11/3	4.5	Dimension	4.5/p.229: 1,3,5,9,10,13,15,20,22,27
26	11/7	4.6	Rank	4.6/p.236: 2,3,7,9,10,20,21,22,28
27	11/10		Chapter 4 Review	
28	11/14	5.1	Eigenvalues & Eigenvectors	5.1/p.271: 1,3,5,7,9,11,13,17,18,19,20
	11/14	EXAM II	Covers lessons 15-27	12:00-1:20 in a room TBA
29	11/15	5.1/5.2	Eigenvectors, Char. Eq.	5.1/p.271: 21,22,23,25,26
30	11/17	5.2/5.3	Characteristic Equation, Diag.	5.2/p.279: 1,5,9,13,18,19,21,24
31	11/21	5.3	Diagonalization of Matrices	5.3/p.286: 1,6,7,9,11,13,15,21,23,26,27,31
32	11/22	5.4	Matrix of a Linear Trans.	5.4/p.293: 1-9
33	11/28	5.4	Diagonalizable LTs	5.4/p.293: 10,13,14,15,17,20,22,23
34	11/29	6.1	Inner Product	6.1/p.336: 2,6,13,15,17,18,19,20,22,26,30,31
35	12/1	6.2	Orthogonal Sets	6.2/p.344: 1,2,7,11,14,17,22,23,26
36	12/5	6.3	Orthogonal Projections	6.3/p.352: 1,3,6,7,11,15,17,21,24
37	12/6	6.4	Gram-Schmidt	6.4/p.358: 1,3,6,9,10,22
38	12/8	6.5	Least Squares	6.5/p.366: 1,3,5,7,9,13,17,18,19,20,21,22
39	12/12		Review	
	12/16	FINAL EXAM	8:30-10:30am	Final exam is cumulative.