

Prof G. Price, glp@usna.edu, USNA Math Dept, Fall 2006-2007

#	Day	Date	Sect	Topic	Page	Problems
1	Mon	21-Aug	1.1	Linear Systems	5	3,6,11,15,19,20
2	Wed	23-Aug	1.2	Gauss-Jordan	20	1,4,5,13,16
3	Fri	25-Aug	1.2	Gauss-Jordan	20	20,21,24,30,33,37
4	Mon	28-Aug	1.3	Solutions	35	1,3,4,7,8,18,22
5	Wed	30-Aug	Review			
6	Fri	1-Sep	2.1	Linear Transformations	51	3,5,8,10,25,28
Labor Day Holiday						
7	Tue	5-Sep	2.1/2.2	LTs/ LTs in Geometry	51/66	33,42 / 1,3
8	Wed	6-Sep	2.2	LTs in Geometry	66	6,10,11,12,17,18
9	Fri	8-Sep	2.2	LTs in Geometry	66	2,5,19,20,23,26
10	Mon	11-Sep	2.3	Inverses	76	1,2,4,19,28,44
11	Wed	13-Sep	2.4	Products	89	7,9,12,16,17,18,40
12	Fri	15-Sep	Review			
13	Mon	18-Sep	Test 1			
14	Wed	20-Sep	3.1	Image and Kernel	109	8,9,10,16,17,19,20
15	Fri	22-Sep	3.1	Kernel and Image	109	23,24,30,33
16	Mon	25-Sep	3.2	Subspaces	121	2,3,4,6,10,12,14
17	Wed	27-Sep	3.2	Linear dependence	122	24,27,33,34,35
18	Fri	29-Sep	3.3	Dimension of subspaces	133	6,11,17,22,27,29
19	Mon	2-Oct	3.3	Dimension	134	31,32,35,36,40,49
20	Wed	4-Oct	3.4	Coordinates	146	1,5,9,18,19
21	Fri	6-Oct	3.4	Coordinates	147	27,37,38,43,45
Columbus Day Holiday						
22	Wed	11-Oct	Review			
23	Fri	13-Oct	5.1	Orthonormal basis <sup>1</sup>	198	2,5,6,15,16
24	Mon	16-Oct	5.1	Orthogonal projections	200	19,27,28,29,30
25	Wed	18-Oct	5.2	Gram-Schmidt process <sup>2</sup>	208	3,4,33,35,39
26	Fri	20-Oct	5.3	Orthogonal transforms	216	4,5,6,7,11
27	Mon	23-Oct	5.3	Orthogonal matrices	217	33,36,37,40,52
28	Wed	25-Oct	Review			
29	Fri	27-Oct	Test 2			
30	Mon	30-Oct	5.4	Least squares / data fits	228	1,5,9,10
31	Wed	1-Nov	5.4	Least squares / data fits	229	19,20,36,38
32	Fri	3-Nov	6.1	Determinants	259	1,6,7,26,43-46
33	Mon	6-Nov	6.2	Determinant properties	271	2,5,6,11,13,14,37,38
34	Wed	8-Nov	6.3	Cramer's Rule	287	1,3,7,11,24
Veterans' Day Holiday						

35	Mon	13-Nov	7.1	Dyn systems and eigens	302	1-7,15,16
36	Wed	15-Nov	7.2	Eigenvalues	314	3,7,9,10,24
37	Fri	17-Nov	7.2	Eigenvalues	314	15,17,22,23,28
38	Mon	20-Nov	7.3	Eigenvectors	324	1,2,9,11
39	Wed	22-Nov	7.3	Eigenvectors	325	27,29,35,44
Thanksgiving Holiday						
40	Mon	27-Nov	Review			
41	Wed	29-Nov	Test 3			
42	Fri	1-Dec	7.4	Diagonalization	338	7,16,17
43	Mon	4-Dec	7.4	Diagonalization	338	33,35,65
44	Wed	6-Dec	Review			

<sup>1</sup>skip correlation    <sup>2</sup>skip QR factorization