CLASS NUMBER	TOPIC	SECTION	CLASS PROBLEMS
1	The Geometry of Linear Equations	1.2	**1.2**(2,7)
2	The Geometry of Linear Equations	1.2	**1.2**(8,11)
3	Gaussian Elimination	1.3	**1.3**(1,3,4,7)
4	Gaussian Elimination	1.3	**1.3**(8,14,16)
5	Matrix Notation and Matrix Multiplication	1.4	**1.4**(4,5,21)
6	Triangular Factors and Row Exchanges	1.5	**1.5(**2,7,11**)**
7	Triangular Factors and Row Exchanges	1.5	**1.5(**21,28**)**
8	Inverses and Transposes	1.6	**1.6**(6,10,11)
9	Inverses and Transposes	1.6	**1.6**(15,17,41,42)
10	Vector Spaces and Subspaces	2.1	**2.1**(2,4)
11	Vector Spaces and Subspaces	2.1	**2.1**(5,24)
12	Solving $Ax = 0$ and $Ax = b$	2.2	**2.2**(1,4,5)
13	Solving $Ax = 0$ and $Ax = b$	2.2	**2,2**(13, 34)
14	Solving $Ax = 0$ and $Ax = b$	2.2	**2,2**(44,54,59)
15	Linear Independence	2.3	**2.3**(1,3,5,8)
16	Basis, and Dimension	2.3	**2.3**(16)
17	Basis, and Dimension	2.3	**2.3**(19,23)
18	The Four Fundamental Subspaces	2.4	**2.4(**2,13)
19	The Four Fundamental Subspaces	2.4	**2.4**(18,24,29)
20	Orthogonal Vectors and Subspaces	3.1	**3.1**(1,7,9,12)
21	Cosines and Projections onto Lines	3.2	**3.2**(1,3)
22	Cosines and Projections onto Lines	3.2	**3.2**(8,17)
23	Projections and Least Squares	3.3	**3.3**(1,4,)
24	Projections and Least Squares	3.3	**3.3**(6,23)
25	Properties and Formulas of the Determinant	4.2	**4.2** (4,5)
26	Applications of the Determinant	4.4	**4.4**(2,14,29)
27	Eigenvalues and Eigenvectors	5.1	**5.1**(1,2)
28	Eigenvalues and Eigenvectors	5.1	**5.1**(6,7)
29	Eigenvalues and Eigenvectors	5.1	**5.1**(15,17)
30	Diagonalization of a Matrix		5.2(8)
31	Diagonalization of a Matrix	5.2	**5.2**(3,4,6)
32	Diagonalization of a Matrix		5.2 (16)

33	Complex Matrices	5.5	**5.5**(1,2)
34	Complex Matrices	5.5	Theorems for Hermitian matrices
35	Complex Matrices	5.5	**5.5**(15,33)
36	Tests for Positive Definiteness	6.2	**6.2**(1,3,11)
37	Singular Value Decomposition	6.3	**6.3**(1,4)
38	Singular Value Decomposition	6.3	**6.3**(14)
39	Matrix Norm and Condition Number	7.2	**7.2**(15,17)
40	Iterative Methods for $Ax = b$	7.4	**7.4(2)**

ASSIGNMENT PROBLEMS
1.2 (15,17)
1.2(18,22)
1.3(9,10,12)
1.3(26,32)
1.4(11,28,56)
1.5(9,27,30)
1.5(9,32,40,41)
1.6(2,4,5,12)
1.6(37,52,54,58)
2.1(1,6,8**)**
2.1(26,28)
2.2(7,12)
2.2(15,32)
2.2(36,56)
2.3(4,9,10)
2.3(13,31)
2.3(32,40)
2.4(3,6,11)
2.4(17,28,31,32)
3.1(2,10,11,18, 33)
3.2(5,9)
3.2(11,19)
3.3(2,9)
3.3(12,24)
4.2 (2,6,13)
4.4(5,7,27)
5.1(3,9)
5.1(10,11)
5.1(19,22,27,39)
Matrix with defect.
5.2(8,12,16,32)
5.2 (17)

5.5(3,10) Theorems for Skew-Hermitian matrices	
5.5(22,43)	
6.2(25,34)	
6.3(2,3)	
6.3(14)	
7.2(2,10)	
7.4(5)	