MATH 228: Linear Algebra and Differential Equations		**Spring 2002**
Jan 16	1.1 Intro to Linear Systems & Matrices	
18	1.2 Gaussian Elimination	*Tutorial:*
21	1.3 Matrix Algebra	
23	1.4 Inverses and Elementary Matrices	*Quiz 1: Snow*
25	1.5 Matrix Factorization	
28	1.5 (1.6 Transposes, Symmetry)	
30	2.1-2.2 Determinant Function & Properties	*Quiz 2: Gursky*
Feb 1	2.4 Cofactor Expansion; Cramer's Rule	
4	3.1–2 Vectors and Euclidean Space	
6	3.1 Span	*Quiz 3: Liu*
8	3.3 General Vector Spaces	
11	*Extra/Review*	
12	**Exam I**	
13	3.4 Subspaces	*Review exam*
15	3.5 Linear Independence	
18	3.6 Basis and Dimension	
20	3.7 Fundamental Subspaces, Rank	*Quiz 4: Snow*
22	3.7–3.8 Coordinates, Change of Basis	
25	3.8 Coordinates, Change of Basis	
27	4.1 Linear Transformations	*Quiz 5: Gursky*
Mar 1	4.2 Inner Products	
4	4.4 Gram-Schmidt	
6	4.5 Orthogonal Matrices, QR Decomposition	*Quiz 6: Liu*
8	4.5 QR Decomposition (*Review*)	
9–17	*Midsemester Break*	
18	4.7 Change of Basis, Similar Matrices	
19	**Exam II**	
20	5.2 Eigenvalues and Eigenvectors	*Review exam*
22	5.3 Diagonalization	
25	5.4 Symmetric Matrices	
27	1.1–3 Intro to Differential Equations	*Quiz 7: Snow*
29	*Easter Holiday*	
Apr 1	*Easter Holiday*	
3	2.1 Linear Equations	*Quiz 8: Gursky*
5	2.2 Separable Equations	
8	2.3 Modeling with Linear Equations	
10	2.6 Exact Equations, Integrating Factors	*Quiz 9: Liu*
12	3.1 Homogeneous Equations	
15	3.2 Fundamental Solutions	
17	3.3 Linear Independence, Wronskian	*Quiz 10: Snow*
19	3.4 Complex Roots	
22	3.5 Repeated Roots	
23	**Exam III**	
24	3.6 Non-homogeneous Equations	*Review exam*
26	3.7 Variation of Parameters	
29	3.7, 3.8 Mechanical Vibrations	
May 1	3.8 Mechanical Vibrations (*Review*)	
2–5	*Study Days*	
May 7	*Final Exam*	