Dr. Mann's M340L
56175
Spring 2011
MWF 10 am

19-Jan	1.1 Systems of Linear Equations	
21-Jan	1.2 Row Reduction and Echelon Forms	
24-Jan	1.3 Vector Equations	
26-Jan	1.4 The Matrix Equation A**x**=**b**	HW1
28-Jan	1.5 Solution Sets of Linear Systems	
31-Jan	1.6 Applications of Linear Systems	
2-Feb	1.7 Linear Independence	HW2
4-Feb	1.8 Introduction to Linear Transformations	
7-Feb	1.9 The Matrix of a Linear Transformation	
9-Feb	*Flex Day: Catch up or 1.10 Linear Models*	HW3
11-Feb	2.1 Matrix Operations	
14-Feb	2.2 The Inverse of a Matrix	
16-Feb	*Review*	HW4
18-Feb	**In class Exam 1**	
21-Feb	2.3 Characterization of Invertible Matrices	
23-Feb	2.7 Applications to Computer Graphics	HW5
25-Feb	3.1 Introduction to Determinants	
28-Feb	3.2 Properties of Determinants	
2-Mar	4.1 Vector Spaces and Subspaces	HW6
4-Mar	4.2 Null Spaces, Column Spaces, and Linear Transformations	
7-Mar	4.3 Linearly Independent Sets; Bases	
9-Mar	4.4 Coordinate Systems	HW7
11-Mar	4.5 The Dimension of a Vector Space	
14-Mar	**UT Spring Break**	
16-Mar	**UT Spring Break**	
18-Mar	**UT Spring Break**	
21-Mar	4.6 Rank	
23-Mar	4.7 Change of Basis	HW8
25-Mar	*Flex Day: Catch up or 4.9 Applications to Markov Chains*	
28-Mar	5.1 Eigenvectors and Eigenvalues	
30-Mar	*Review*	HW9
1-Apr	**In class Exam 2**	
4-Apr	5.2 The Characteristic Equation	
6-Apr	5.3 Diagonalization	HW10
8-Apr	5.4 Eigenvectors and Linear Transformations	
11-Apr	5.5 Complex Eigenvalues	
13-Apr	5.6 Discrete Dynamical Systems	HW11
15-Apr	*Flex Day: 5.7 or Catch up*	
18-Apr	6.1 Inner Product, Length, and Orthogonality	
20-Apr	6.2 Orthogonal Sets	HW12
22-Apr	6.3 Orthogonal Projections	
25-Apr	6.4 The Gram-Schmidt Process	
27-Apr	6.5 Least-Squares Problems	HW13
29-Apr	6.6 Applications to Linear Models	
2-May	7.1 Diagonalization of Symmetric Matrices	
4-May	7.2 Quadratic Forms	HW14
6-May	*Review*	
13-May*	**Cummulative Final Exam**	

*The university will set the final exam schedule later in the semester.