

Day #	Date	Book section	Topic	HW
1	W 8/27	1.1	Introduction and systems of linear equations	
2	W 9/3	1.2	Row reduction and Echelon forms	
3	M 9/8	1.3	Vector equations	HW1
4	W 9/10	1.4-1.5	Matrix equation $Ax=b$ and solution sets	
5	M 9/15	1.6	Applications of linear systems	HW2
6	W 9/17	1.7	Linear independence	
7	M 9/29	1.8-1.9	Linear transformations	HW3
8	M 10/6	2.1-2.2	Geometric examples and matrix operations	HW4
9	W 10/8	2.3	Invertibility	
10	T 10/14	2.8-2.9	Subspaces, dimension, and rank	HW5
11	W 10/15		Review	
12	W 10/22		MIDTERM EXAM	
13	F 10/24	3.1-3.2	Determinants	
14	M 10/27		Midterm solutions	HW6
15	W 10/29	4.1-4.2, 4.4	Vector spaces, subspaces, bases, coordinates, I	
16	M 11/3	4.1-4.2, 4.4	Vector spaces, subspaces, bases, coordinates, II	HW7
17	W 11/5	4.2-4.3	Linear transformations of vector spaces	
18	M 11/10	4.6	Change of basis	HW8
19	W 11/12	5.1-5.2	Eigenvectors and eigenvalues, characteristic eqn	
20	M 11/17	5.3	Diagonalization 1	HW9
21	W 11/19	5.4	Diagonalization 2	
22	M 11/24	5.6, 5.9	Discrete dynamical systems, Markov chains	HW10
23	W 11/26	6.1	Inner products, orthogonality	
24	M 12/1	6.2-6.3	Orthogonal projections	HW11
25	W 12/3	6.4	Gram-Schmidt process	
26	M 12/8	7.1-7.2	Diagonalization of symmetric matrices	HW12
27	W 12/10	7.4-7.5	Singular Value Decomposition and applications	
28	M 12/15		Review	

M 12/22

FINAL EXAM, 11:30am - 1:30pm