

Day #	Date	Book section	Topic	HW
1	M 1/27	1.1	Introduction and systems of linear equations	
2	M 2/3	1.2	Row reduction and Echelon forms	
3	W 2/5	1.3	Vector equations	HW1
4	M 2/10	1.4-1.5	Matrix equation $Ax=b$ and solution sets	
5	T 2/18	1.6	Applications of linear systems	
6	W 2/19	1.7	Linear independence	HW2
7	M 2/24	1.8-1.9	Linear transformations	
8	W 2/26	2.1-2.2	Geometric examples and matrix operations	HW3
9	M 3/3	2.3	Invertibility	
10	W 3/5	2.8-2.9	Subspaces, dimension, and rank	HW4
11	Th 3/6	3.1-3.2	Determinants	
12	M 3/10	4.1	Vector spaces	
13	W 3/12	4.2-4.3	Bases, linear transformations of vector spaces	HW5
14	M 3/17	4.4-4.6	Coordinates, dimension, change of basis	
15	W 3/19	5.1-5.2	Eigenvectors and eigenvalues, characteristic eqn	HW6
16	M 3/24	5.3	Diagonalization 1	
17	W 3/26	5.4	Diagonalization 2	HW7
18	W 4/2	5.6, 5.9	Discrete dynamical systems, Markov chains	HW8
19	M 4/7	6.1	Inner products, orthogonality	
20	W 4/9	6.2-6.3	Orthogonal projections	HW9
21	M 4/21	6.4	Gram-Schmidt process	
22	W 4/23	6.5-6.6	Least squares method and applications	HW10
23	M 4/28	7.1-7.2	Diagonalization of symmetric matrices	
24	W 4/30	7.4	Singular Value Decomposition	HW11
25	M 5/5	7.4-7.5	Applications of Singular Value Decomposition	
26	W 5/7	8.x-9.x	Convex geometry and linear programming	HW12
27	M 5/12		Review	
28	W 5/14		Review	

M 5/19

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