

Math 616 - Spring 2018

Week	Date	Material	Homework
1	1/22	Determinants	p. 326: 2.8, 2.10, 2.11, 2.12, 2.18, 2.20 p. 357: 1.14 Suggested: p. 326: 2.21 or 2.22
2	1/29	Eigenvalues, Eigenvectors, and Diagonalization	p. 405: 3.23, 3.24, 3.28, 3.31, 3.39, 3.45
3	2/5	Matrix Exponentiation and Applications	Mixing Problems (see handout) #5, #11 (setup)
4	2/12	Jordan Canonical Form	p. 444: 2.20, 2.22abce, 2.24
	2/19	Presidents' Day	
5	2/26	Inner Products	p. 47: 2.12, 2.14, 2.20, 2.26 p. 270: 1.6ac, 1.8, 1.19 (HW Due 3/19)
6	3/5	Test 1 (weeks 1-4)	
	3/12	Spring Break	
7	3/19	Orthonormal Basis Orthogonal Projection Fourier Coefficients	Problem Sheet
8	3/26	Orthogonal Complement Transpose, Projections Least Squares	Problem Sheet
9	4/2	Markov Chains	Example 11.1 on handout Derive formula for nth Fibonacci number
10	4/9	Linear Codes	Problem Sheet
11	4/16	Mathematica	
12	4/23	Test 2 (weeks 5-10)	
13	4/30	Mathematica	Final Project due 5/7
	5/7	Present Final Projects	