Math 4242 reading schedule (subject to change)

09/06 Gauss elimination, pivoting 1.1-1.4
09/13 Inverses, linear systems, determinants 1.5, 1.6, 1.8, 1.9
09/20 Vector spaces, span, bases, dimension 2.1-2.3
09/27 Kernel, range, adjoints, solvability 2.4-2.5
10/06 Midterm I (covering Chapter 1 and 2)
10/04 Inner products, norms 3.1-3.3
10/11 Positive definite, Cholesky 3.4-3.6
10/18 Minimization, least squares, interpolation 4.1-4.4
10/25 Orthogonal bases and matrices, Gram-Schmidt 5.1-5.3
11/01 Orthogonal polynomials and projections, Fourier 5.4-5.7
11/10 Midterm II (covering Chapter 3, 4 and 5)
11/8 Linear transformations 7.1-7.2
11/15 Isometries, linear systems 7.3-7.5
11/22 Eigenvalues, diagonalization 8.2-8.3
11/29 Symmetric matrices, singular values, Jordan form 8.4-8.6
12/06 Linear iteration, matrix norm 10.1-10.3
12/13 Midterm III (covering Chapter 7 and 8)