

Math 310 Linear Algebra -- Spring 2017 Tentative Schedule

The schedule below shows what I tentatively plan to cover in class each day. As circumstances dictate, this schedule may change over the course of the semester, but it should serve as a guide to what we will be doing. In general, homework for each section will be due at the start of the next class meeting.

1/17	Course Intro, 1.1 Systems of Linear Equations start 1.2 Row Reduction and Echelon Forms.	1/20	Inauguration Day - no class
1/24	Finish 1.2, 1.3 Vector Equations	1/27	1.4 Matrix Equation $Ax = b$ start 1.5 Solutions of Linear Systems
1/31	Finish 1.5 Solutions of Linear Systems 1.7 Linear Independence	2/3	Finish 1.7 Linear Independence; Start 2.1 Matrix operations.
2/7	2.1 Matrix Operations 2.2 Inverse Matrices	2/10	2.3 Invertible Matrices
2/14	Determinants Handout (not covered on exam)	2/17	Exam 1, through 2.3
2/21	4.1 Vector Spaces and Subspaces	2/24	4.2 Null and Column Spaces and Linear Transformations
2/28	4.3 Linear Independence, Bases.	3/3	4.5 Dimension
3/7	4.6 Rank	3/10	Difference Equations and Eigenvalue/Eigenvector concepts
3/14	Spring Break - no class	3/17	Spring Break - no class
3/21	5.1 Eigenvectors and Eigenvalues	3/24	5.2 Characteristic Equation
3/28	Review	3/31	Exam 2, 2.1 through 5.2
4/4	5.3 Diagonalization, Symmetric Case	4/7	6.1 Applying Eigen-analysis
4/11	6.1 Inner Product	4/14	6.2 Projections; Handout: Projection on $\text{Col}(A)$
4/18	6.5 Least Squares	4/21	6.6 Least Squares Applications
4/25	Catch up; TBD	4/28	Review -- Last day of class.
5/2	study day: no classes	5/5	Final Exam: Friday, May 5, 11:20AM - 1:50PM