Math 300, Fall 2014

Monday	Wednesday	Friday
Aug 25th **1** 1.1 Vectors Classes Begin	27th **2** 1.2 Some geometry	29th **3** 2.1 Linear Systems
Sep 1st **4** 2.2 Elimination	3rd **5** 2.3/2.4 Matrix operations HW 1 Due	5th **6** 2.4/2.5 More matrices, inverse matrix
8th **7** 2.5/2.6 More on the inverse matrix $A = LU$	10th **8** 2.7 A^T HW 2 Due	12th **9** Catch-up / Problem day
15th **10** 2.7 Permutation matrices	17th **11** 3.1 Vector spaces	19th **12** 3.1 Column space of A
22nd **13** Review / Problem day	24th **14** **Test 1** HW 3 Due	26th **15** 3.2 Nullspace of A
29th **16** 3.3 Rank of A, rref	Oct 1st **17** 3.4 Complete solution of $A\vec{x} = \vec{b}$	3rd **18** 3.5 Independence, basis, dimension
6th **19** 3.6 Dimensions of the four subspaces	8th **20** 4.1 Orthogonality of subspaces HW 4 Due	10th **21** Catch-up / Problem day
13th **22** 4.2 Projections	15th **23** 4.2/4.3 More about projections	17th **24** 4.3 Least squares (application)
20th **25** Review / Problem day	22nd **26** **Test 2** HW 5 Due	24th **27** 4.4 Gram–Schmidt
27th **28** 5.1 Determinants	29th **29** 5.2 Cofactor expansion	31st **30** 5.3 Cramer's rule, inverses, volumes (geometry)
Nov 3rd **31** 6.1 Eigenvalues	5th **32** 6.2 Diagonalization HW 6 Due	7th **33** Catch-up / Problem day
10th **34** 6.2/6.4 Symmetric matrices	12th **35** 6.4	14th **36** 6.6 Similar matrices
17th **37** Review / Problem day	19th **38** **Test 3** HW 7 Due	21st **39** 6.7 SVD
24th Thanksgiving	26th Thanksgiving	28th Thanksgiving
Dec 1st **40** 7.1 Linear transformations	3rd **41** 7.2 Matrix representation	5th **42** Review / Problem day Last Class