

Math 1502 E and J
Spring 2010
A. D. Andrew

In the calendar below, SHE refers to *Calculus, one and several variable, tenth edition*, by Salas, Hille, and Etgen. CC refers to *Linear Algebra from the Beginning*, 2007 edition, by Carlen and Carvalho.

Monday	Tuesday	Wednesday	Thursday	Friday
11 Jan Intro. SHE 8.7: Numerical integration	12	13 SHE 9.1: Differential equations	14	15 SHE 9.2: Differential equations
18 HOLIDAY	19	20 SHE 11.5-6: L'Hospital's rule	21	22 SHE 11.7: Improper integrals
25 SHE 12.6: Taylor polynomials	26	27 SHE 12.7: Taylor polynomials	28	29 SHE 12.2: Infinite series
1 Feb SHE 12.3-12.4: Convergence tests	2	3 SHE 12.5: Absolute and conditional convergence	4	5 SHE 12.8: Power series
8 SHE 12.8-12.9: Power series	9	10 SHE 12.8-12.9: Power series	11 HOUR TEST 1	12 CC Ch 1: Vector operations, linear transformations
15 CC Ch 1: Vector operations, linear transformation	16	17 CC Ch 1: Matrix products	18	19 MIDTERM GRADES DUE CC Ch1, SHE 13: Dot product, geometry of \mathbf{R}^n
22 SHE 13.5-13.6: Geometry of \mathbf{R}^n	23	24 CC Ch 1: Matrix multiplication revisited	25	26 CC Ch 1: Linear transformations on \mathbf{R}^n
1 Mar CC Ch 2: Systems of linear equations	2	3 CC Ch 2: Systems of linear equations	4	5 DROP DAY CC Ch 2: Row reduction
8 CC Ch 2: Inverse matrices	9	10 CC Ch 2: LU factorization	11	12 CC Ch 3: Subspaces, least squares, normal equations
15 CC Ch 3: Linear independence, spanning, bases	16	17 CC Ch 3: Dimension	18 HOUR TEST 2	19 CC Ch 3: Bases for images of linear transformations
22 SPRING BREAK	23 SPRING BREAK	24 SPRING BREAK	25 SPRING BREAK	26 SPRING BREAK

29 CC Ch 3: Bases for images	30	31 CC Ch 3: Orthogonal projections	1 Apr	2 CC Ch 3: Gram-Schmidt, QR factorization
5 CC Ch 3: QR and least squares	6	7 CC Ch 3: Least squares	8	9 CC Ch 4: Determinants
12 CC Ch 4 - 5: Determinants, eigenvalues and eigenvectors	13	14 CC Ch 5: Eigenvalues, eigenvectors	15	16 CC Ch 5: Eigenvalues, eigenvectors, diagonalization
19 CC Ch 5: Difference and differential equations	20	21 CC Ch 5: Difference and differential equations	22 HOUR TEST 3	23 CC Ch 5: Diagonalization of symmetric matrices, quadratic forms
26 Review	27	28 Review	29	30 Review
3 May EXAM WEEK	4	5	6	7