

COURSE PLAN (Flexible dates, will be updated if needed BUT the assignments will not change)

You are supposed to read the corresponding sections in the book BEFORE attending class. The assignment contains practice problems and required problems. You only need to turn in the required ones on Tuesdays, and only these problems will be graded.

WEEK	DATE	TOPIC	Lecture	BOOK SECTIONS	ASSIGNMENT
1	Oct 21 (Th)	Systems of algebraic equations, Row reduction, echelon form, Gauss Jordan Elimination	1	1.1, 1.2	1.1: 3,7, 12, 16, 18, 23, 24,29 1.2: 2,3,9, 15, 19, 21
2	Oct 25(M)	Vector equations, matrix equation	2	1.3, 1.4	1.3: 4, 6, 13,17 1.4: 6, 10, 14, 15, 23, 24, 25
	Oct 27 (W)				1.1: 25, 28, 33 1.2: 16,31,33 1.3: 22, 31 1.4: 21, 34
	Oct 28 (Th)	Solution sets of linear systems, applications	3	1.5, 1.6	1.5: 5, 11, 21, 24, 26 1.6: 11
3	Nov 1 (M)	Linear independence, linear transformations.	4	1.7, 1.8	1.7: 5, 9, 17, 21, 27 1.8: 4, 5, 11, 15, 17, 21, 32, 36
	Nov 3 (W)	Due Quiz 1 (Sec 1.1 through 1.6)			1.5: 28, 38 1.6: 14 1.7: 31, 40 1.8: 18, 25, 33
	Nov 4 (Th)	Matrix of a linear transformation, Matrix operations	5	1.9, 2.1	1.9: 3, 5,8, 20, 22, 24, 25 2.1: 6, 9, 15, 16
4	Nov 8 (M)	Inverse of a matrix, invertible matrices	6	2.2, 2.3	2.2: 7, 9, 12, 19, 35 2.3: 1,3,5,11, 15, 27,38
	Nov 10 (W)	<i>This homework has to be done using Latex</i>			1.9: 14, 36 2.1: 21, 23 2.2: 21, 23, 40 2.3: 26, 37, 41ab
	Nov 11 (Th)	Subspace, dimension and rank	7	2.8, 2.9	2.8: 3,7,13, 22,24 2.9: 1,4, 10, 18
5	Nov 15 (M)	Determinants, properties of determinants	8	3.1, 3.2	3.1: 1,9,27, 37, 41 3.2: 3,7, 16, 27, 31
	Nov 17 (W)				2.8: 25, 37 2.9: 5, 9, 27 3.1:38, 42 3.2: 19, 34, 35
	Nov 18 (Th)	Quiz2 - in class			
6	Nov 22 (M)	Thanksgiving break			
	Nov 24 (W)	Thanksgiving break			
	Nov 25 (Th)	Thanksgiving break			
7	Nov 29 (M)	Cramer's rule, volume, linear transformations, Eigenvalues and eigenvector	9	3.3, 5.1	3.3: 5, 13 5.1:4,9,13,19,22,25
	Dec 1 (W)				3.3: 6, 18 5.1:12, 26, 37
	Dec 2 (Th)	The characteristic equation, Diagonalization	10	5.2, 5.3	5.2: 3, 9, 18, 21 5.3: 1, 6, 10, 21, 23
8	Dec 6 (M)	Complex Eigenvalues	11	5.5	5.5: 6, 9, 13
	Dec 8 (W)	Due Quiz 3			
	Dec 9 (Th)	Review for final	12		
9	Dec 16 (Th)	Due Final Exam			