

Math 322 schedule (approximate)

Prof. Readdy

Fall 2024

Aug 26th	Week 1 1.1 Systems of linear equations 1.2 Row reduction and echelon form
Sept 2nd	Week 2 LABOR DAY 1.3 Vector equations 1.4 The matrix equation $Ax = b$
Sept 9th	Week 3 1.4 cont'd 1.5 Solution set of a linear system
Sept 16th	Week 4 1.7 Linear independence 1.8 Intro to linear transformations 1.9 The matrix of a linear transformation
Sept 23rd	Week 5 1.9 cont'd 2.1 The algebra of matrices (matrix operations) 2.2 The inverse of a matrix
Sept 30th	Week 6 2.2 cont'd 2.3 Characterization of invertible matrices 2.4 Partitioned matrices
Oct 7th	Week 7 2.5 $A=LU$ decomposition 3.1 Intro to determinants 3.2 Properties of determinants
Oct 14th	Week 8 3.3 Cramer's rule 4.1 Vector spaces and subspaces EXAM I (Weeks 1 through 7 material)

Oct 21st	Week 9
	4.2 Nullspace, column space & linear transformations
	4.3 Linear independent sets & bases
Oct 28th	Week 10
	FALL BREAK
	4.4 Coordinate systems
	4.5 Dimension of a vector space
Nov 4th	Week 11
	4.6 Rank
	4.7 Change of Basis
Nov 11th	Week 12
	5.1 Eigenvalues and eigenvectors
	EXAM II (Weeks 8 through 11 material)
Nov 18th	Week 13
	5.2 The characteristic equation
	5.3 Diagonalization
	5.5 Complex eigenvalues
Nov 25th	Week 14
	6.1 to 6.3 Review of dot product, vector length, orthogonality, projection
	THANKSGIVING
Dec 2nd	Week 15
	6.1 to 6.3 Review of dot product, vector length, orthogonality, projection
	Preview importance of an orthonormal basis
	6.4 Gram-Schmidt
Dec 9th	Week 16 (2 lectures)
	7.1 Diagonalization of symmetric matrices
	Review for Final Exam
	Week 17
	Final Exam (cumulative)
	Wed Dec 18th 8 am - 10 am

Last updated: August 7, 2024