

Date	Topic	Note:	Assignments
T: 1-14	On mappings and matrices, notations.		
TH: 1-16	Gauss Jordan Algorithm and the rref		
T: 1-21	Matrix Algebra I (notation, indices, blocks)		Mission 1
TH: 1-23	Matrix Algebra II (multiplication, concatenation)		
T: 1-28	Matrix Algebra III (algebra, elementary, inverses)		Mission 2
TH: 1-30	LI and spanning of vectors in RN		
T: 2-4	Linear transformations in RN		Mission 3
TH: 2-6	Questions		
T: 2-11	Test 1		
TH: 2-13	Vector Spaces & Subspace Theorems		
T: 2-18	Theory of LI and spanning		Mission 4
TH: 2-20	Basis and dimension		
T: 2-25	Abstract Linear Transformations		Mission 5
TH: 2-27	Isomorphism		
T: 3-4	Coordinate Change		Mission 6
TH: 3-6	Independence of subspaces, direct sums.		
	Spring Break: (3-10 to 14)		no classes 3-11,3-13,3-15
T: 3-18	Quotient space and isomorphism		Mission 7
TH: 3-20	Questions		
T: 3-25	Test 2		
TH: 3-27	Determinants defined		
T: 4-1	Determinants, $\det(AB)=\det(A)\det(B)$		Mission 8
TH: 4-3	Orthogonal complements and geometry		
T: 4-8	Orthogonal complements and geometry		Mission 9
W: 4-9	Assessment Day –plan to be here-		
TH: 4-10	The eigenvector problem		
T: 4-15	Complex e-vectors, generalized e-vectors		Mission 10
TH: 4-17	Real Jordan form		
M: 4-21	Easter Monday		
T: 4-22	Real Jordan form		Mission 11
TH: 4-24	Questions		
T: 4-29	Test 3		

- Test 1=150pts, Test 2=150pts, Test 3=150pts, Technology Assignment 20pts/Course Survey 10pts/ Missions (220pts)/ Final = 300pts.
- Computational techniques, problem solving, basic operations are not taught in lecture for the most part. The emphasis of lecture is proofs and theory. It is important that you do the Missions and enough of the recommended Hefferon problems to round-out your computational skill-set.
- I wrote notes specifically for your course. I hope you put these first in your study of linear algebra. Hefferon exists to complement my notes and to supply you a couple hundred extra examples complete with solutions (for free !). If you need to learn from the traditional textbook with all its glossy hundred dollar exuberance, then by all means, buy an old edition of Anton or Lay for \$10 to supplement your reading. A more complete reading guide is given in my lecture notes.
- Missions are due at the start of class. They should be written clearly, single-sided, in order, with a staple.
- No notes or notecards are permitted for the in-class exam, tests or quizzes.