

Syllabus for Math 34600 Elements of Linear Algebra
Sept. 2011

Prerequisites Math 20300; Co requisite: Math 203 and departmental permission
3hrs/ 3 credits

Text: *Elementary Linear Algebra*, 10th ed., by Howard Anton, John Wiley & Sons Publ.

Chapter	Sections	Hours	Comments
1: Systems of Linear Equations and Matrices	1-7	10	In 1.3, omit block multiplication by partitioning.
2: Determinants	1-3	5	
3: Vectors in \mathbb{R}^2 , \mathbb{R}^3 and intro to \mathbb{R}^n	1	1	
4: General Vector Spaces	1 - 9	13	Make sure students know the definitions and can use them in computations. Some proofs should be required as well.
5: Eigenvalues and eigenvectors	1 – 2	3	
8: Linear Transformations	1 – 4	6	

The semester contains 42 hours of instruction. The syllabus above allots a total of 38 hours (meaning 50-minute units of instruction), leaving four hours for exams and review.

Course Supervisor: Professor V. Shpilrain