Course: Linear Algebra
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Textbook:


(The content of this course comes from the above books and other references.)
Reference:


Grading: Two midterms and the final, quizzes (85%), Homework (15%)
Contents

1. Systems of Linear Equations and Matrices (Chap. 1)
2. Determinants (Chap. 2)
3. Euclidean Vector Spaces ($\mathbb{R}^2$, $\mathbb{R}^3$, $\mathbb{R}^n$) (Chap. 3)
4. General Vector Spaces (Chap 4)
5. Eigenvalues and Eigenvectors (Chap 5)
6. Inner Product Spaces (Chap 6)
7. Diagonalization and Quadratic Forms (Chap 7)
8. Linear Transformations (Chap 8)
9. Additional Topics
   (Singular Value Decomposition and Jordan Forms.)