

MATH 220.03

Linear Algebra

Fall 2011-12

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Course web page: <http://www.fen.bilkent.edu.tr/~mugan/courses/math240/Math220-Generic.htm>

Text Books : **Main Textbook:**
Bernard Kolman & David R. Hill
Elementary Linear Algebra with Applications, 9th Edition (Pearson Education, 2008)
Supplementary Textbooks:
Howard Anton
Elementary Linear Algebra, (Wiley, 6th Edition)

Exams : Quizzes, Homeworks and Attendance (15 %) **(NO MAKE-UP FOR QUIZES)**
Midterm Exam # 1 (25 %), **Date: November 3, 2011, Time:18:00-20:00,**
Place: To Be Announced
Midterm Exam # 2 (25 %), **Date: December 8, 2011, Time:18:00-20:00,**
Place: To Be Announced
Final Exam (35 %), **To be announced**
75 % ATTENDANCE IS OBLIGATORY

Week	Subject	Exams
1. September 26	System of Linear Equations, Matrices, 1.1-1.5	
2. October 3	Echelon Form of a Matrix, Nonsingular Matrices, 2.1-2.3	
3. October 10	Elementary Matrices, LU Factorization, 2.3-2.5	
4. October 17	Determinants and Applications 3.1-3.5	
5. October 24	Vector Space, Subspaces, 4.1-4.5	
6. October 31	Linear Independence, Basis and Dimension, 4.5-4.6	Midterm Ex #1
7. November 7	HOLIDAY	
8. November 14	Coordinates, Homogenous Systems and Rank, 4.7-4.9	
9. November 21	Inner Product Space, 5.1-5.2	
10. November 28	Gram-Schmidt Process, Orthogonal Complement, 5.3-5.4	
11. December 5	Linear Transformations , 6.1-6.2	Midterm Ex #2
12. December 12	Matrix of Lin. Trans., Similarity, 6.3, 6.5	
13. December 19	Eigenvalues, Eigenvectors, 7.1-7.2	
14. December 26	Diagonalization 7.3	
15. January 2	Application of Eigenvalues, Eigenvectors 8.1-8.3	