

MATH 227.03
Introduction to Linear Algebra
 Spring 2007-08

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Course web page : <http://www.fen.bilkent.edu.tr/~mugan/courses/math227/math227.htm>

Text Books : **Main Textbook:**
 Howard Anton and Chris Rorres
Elementary Linear Algebra, 9th Edition
 (John Wiley and Sons, 2005)
Supplementary Textbooks:
 Bernard Kolman
Elementary Linear Algebra, 6th Edition
 (Prntice Hall, 1996)

Exams : Quizzes, Homeworks and Attendance (15 %) **(NO MAKE-UP FOR QUIZES)**
 Midterm Exam # 1 (25 %), **Date: March 20, 2008 Time:18:00-20:00**
 Midterm Exam # 2 (25 %), **Date: April 25, 2008 Time: 18:00-20:00**
 Final Exam (35 %), **Date:... To be announced.. Time:.....**
75 % ATTENDENCE IS OBLIGATORY

Week	Subject	Sections	Exams
1. Feb. 11	Introduction of Systems of linear Eq's, Gaussian Elimination	1.1, 1.2	
2. Feb. 18	Matrices and Matrix Operations, Inverse of a matrix,	1.3, 1.4	
3. Feb. 25	Inverse of a matrix, Elementary Matrices	1.4-1.7	
4. March 3	Determinant Function	2.1, 2.2	
5. March 10	Properties of Determinant	2.3	
6. March 17	Cofactor Expansion, Cramer's Rule	2.4	Midterm Ex #1
7. March 24	Vectors in 2-space and 3-space ,Lines and Planes in 3-space	3.1- 3.5	
8. March 31	Euclidean n-space, Linear Transformations	4.1, 4.2	
9. April 7	Linear Transformations, Properties of Linear Transformations	4.2, 4.3	
10. April 14	Real Vector Spaces and Subspaces	5.1, 5.2	
11. April 21	Linear Independence, Basis and Dimension	5.3, 5.4	Midterm Ex #2
12. April 28	Row Space, Column Space, Null Space, Rank and Nullity	5.5, 5.6	
13. May 5	Eigen Values and Eigen Vectors, Diagonalization	7.1, 7.2	
14. May 12	Applications of Linear Algebra	11.9	