

**MATHEMATICS 1200 A3**  
**WINTER SEMESTER 1995-96**

**TITLE:** LINEAR ALGEBRA I

**SCHEDULE:** Class: Tuesday, Thursday 9:30 am - 10:50 am J204  
Seminar: Wednesday 2:00 pm - 2:50 pm J227  
or Wednesday 3:00 pm - 3:50 pm J227

**INSTRUCTOR:** Dr. Subhash Karnik  
Office: J206  
Extension: 2093

**TEXT:** Elementary Linear Algebra With Applications by  
W. Keith Nicholson (3rd edition)

**MARKING:** Final 35%  
Mid-term Examination 25%  
Quizzes 25%  
Review Quizzes 15%

**SCHEDULE OF EXAMINATIONS :**

Mid-term test : Thursday, February 22, 1996 (Tentative)  
Final Examination : As will be scheduled by Registrar's  
Office in April 1996  
Quizzes, Review Quizzes, Mid-term Examination and Final  
Examination must be written at scheduled times.

**COURSE TOPICS:** Systems of Linear Equations  
Gauss-Jordan Elimination and Reduced Row Echelon Form  
Matrix Algebra  
Determinants  
Cramer's Rule  
Geometry of vectors in  $\mathbb{R}^n$   
Vector Spaces and Subspaces  
Linear Combinations, Linear Span, Linear Dependence  
& Independence  
Basis and Dimension  
Eigenvalues and Eigenvectors  
Applications