

*Registrar*

**GRANDE PRAIRIE REGIONAL COLLEGE  
DEPARTMENT OF SCIENCE  
COURSE OUTLINE**

**MATHEMATICS 221 B3  
WINTER SEMESTER 1991 - 92**

**TITLE:** LINEAR ALGEBRA I

**SCHEDULE:** Tuesday, Thursday 11:00 am - 12:20 J 203

**INSTRUCTOR:** LakshmaREDDY Ganta

**OFFICE:** J 220

**TELEPHONE:** 539 - 2850

**CONSULTATIONS:** Monday 10:00 am - 11:00 am  
Friday 10:00 am - 12:00 noon AND  
ANY TIME THAT IS CONVENIENT TO BOTH YOU AND ME

**TEXT:** W. Keith Nicholson; ELEMENTARY LINEAR ALGEBRA with  
applications (Second Edition)

**COMPOSITION OF THE COURSE GRADE:**

Final exam	35%
Term Test-1	20%
Term test-2	20%
Quizzes	15%
Assignments	10%

**ASSIGNMENTS:** Must be legible using proper notation. NO LATE  
ASSIGNMENTS. Any work handed in late will be  
marked for errors but will not receive a grade.

**COURSE TOPICS:** Matrix Algebra  
Systems of Linear Equations  
Gauss-Jordan Elimination and Reduced  
Row Echelon form  
determinants  
Cramer's Rule  
Some Applications  
Geometry of vectors in  $R^n$   
Vector Spaces and Subspaces  
Linear Combinations, Span and Linear  
Independence  
Basis and Dimension  
Introduction to Eigenvalues and  
eigenvectors