

GRANDE PRAIRIE REGIONAL COLLEGE  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
MATHEMATICS 1200 A2  
FALL SEMESTER 1999

SEP 05 2000

**TITLE:** LINEAR ALGEBRA I

**SCHEDULE:** Lectures T R 11:30 – 12:45 J201  
Seminars AS1 F 08:30 – 09:20 A304  
AS2 R 09:00 – 09:50 A304

**INSTRUCTOR:** Thomas Kaip  
Office J212  
Extension 2963  
Email [kaip@gprc.ab.ca](mailto:kaip@gprc.ab.ca)

**OFFICE HOURS:** Monday 11:30 – 12:00; Tuesday 09:30 – 10:30;  
Wednesday 11:30 – 12:00; Friday 11:00 – 12:00

**TEXTBOOK:** W. Keith Nicholson; LINEAR ALGEBRA with Applications (3<sup>rd</sup> edition)

**COMPOSITION OF THE COURSE GRADE:**

Final Exam	50%	
Midterm Exam	35%	Tuesday, October 12 1999
Quizzes ( 5 )	15%	

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

**CALCULATORS:** No calculators allowed in Quizzes, Exams and Seminars.