

**GRANDE PRAIRIE REGIONAL COLLEGE**  
**DEPARTMENT OF SCIENCE**  
**MATHEMATICS 1200 A2**  
**FALL SEMESTER 2008**

**TITLE:** LINEAR ALGEBRA I

**SCHEDULE:** LECTURES A2 T R 10:00 – 11:20 J226  
SEMINARS AS1 F 09:00 – 09:50 J202

**INSTRUCTOR:** THOMAS KAIP  
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EXTENSION 2963  
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**TEXTBOOK:** Linear Algebra with Applications ; W.K. Nicholson (5th ED)

**COMPOSITION OF THE COURSE GRADE:**

FINAL EXAM	50%
MIDTERM EXAM	30%
ASSINMENTS	10%
QUIZZES ( 4 )	10%

**QUIZZES:** THERE WILL BE 4 QUIZZES IN TOTAL. THE DATES ARE TBA.

**COURSE TOPICS:** SYSTEMS OF LINEAR EQUATIONS  
GAUSS-JORDON 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.