# GRANDE PRAIRIE REGIONAL COLLEGE
# DEPARTMENT OF SCIENCE
# MATHEMATICS 1200 A2
# FALL SEMESTER 2009

**TITLE:** LINEAR ALGEBRA I

**SCHEDULE:**

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

**INSTRUCTOR:** THOMAS KAIP

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EXTENSION 2963
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**TEXTBOOK:** Elementary Linear Algebra Applications Version; Anton , Rorres (9th ED)

**COMPOSITION OF THE COURSE GRADE:**

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|---|---|
| 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 $R^n$
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.**