## GRANDE PRAIRIE REGIONAL COLLEGE MATHEMATICS 1200 A3 (Winter 2007) – COURSE OUTLINE

Title: Linear Algebra I

Schedule: Lecture A3 M W 8:30 a m - 9:50 a m J204

Seminar AS1 F 9:00 a m - 9:50 a m J204

Instructor: Dr Subhash Karnik

Office J206

Phone 539 - 2093

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**Textbook:** Elementary Linear Algebra (Applications Version)

- 9th Edition by Howard Anton & Chris Rorres

(John Wiley & Sons)

Grading: Assignments 10 %

Quizzes 15 % Mid-term Exam 25 % Final Exam 50 %

**Exam Schedule:** 

Mid-term Exam - Wednesday February 14, 2007 (Tentative) 8:30 a m - 9:50 a m

Final Exam as per Registrar's Schedule to be published in April 2007.

Students must write the quizzes and exams at the scheduled times.

Turn over . . .

## **Course Description**

MA 1200 3 (3 - 1 - 0) UT 60 Hours

Pure Math 30 is a pre-requisite for this course.

(Credit will be granted for only one of MA 1020 or MA 1200.)

## From Alberta Transfer Guide:

In the Province of Alberta this course is transferable as follows:

Athabasca	<b>MATH 270(3)</b>	Augustana UC	<b>MAT 120(3)</b>
Canadian U	CMATH 1xx(3)	Concordia UC	MAT 120(3)
King's UC	<b>MATH 221(3)</b>	U of A	<b>MATH 120(3)</b>
U of C	MATH 211(3)	U of L	MATH 1410(3)

## The following topics are covered in this course:

Systems of Linear Equations
Reduced Row Echelon Form and Gauss-Jordan Elimination
Vector and Matrix Algebra
Determinants
Cramer's Rule
Vector Spaces and Subspaces
Linear Combinations, Linear Span, Linear Dependence & Independence
Basis and Dimension
Eigenvalues and Eigenvectors
Applications