

GRANDE PRAIRIE REGIONAL COLLEGE
Department of Computer Systems Technology
Course Outline

CT 2340 - APPLIED MATHEMATICS II 3(4-1)

INSTRUCTOR:	Joseph Alfonso
OFFICE:	C209
PHONE:	539-2734
MATERIALS REQUIRED:	Text: <u>Elementary Linear Algebra</u> , 6th ed., Anton, Howard.
PREREQUISITE:	CT 1440.
COURSE DESCRIPTION:	An introductory course in Linear Algebra covering Systems of Linear Equations, Matrix Algebra, Determinants, Vectors in 2-Space and 3-Space, Vector Spaces, Directed Graphs and other Applications of Linear Algebra.
COURSE OBJECTIVES:	This course will provide an introduction to Linear Algebra. Linear Algebra is used extensively in Computer Science for Graphics, System Analysis and Design, Operating Systems and Data Base Processing.
EVALUATION:	Assignments: 10% Mid-terms (2): 40% Final*: 50%

***FINAL MAY BE WRITTEN FOR 70% IF ALL THE MID-TERMS
HAVE BEEN WRITTEN AND THE AVERAGE IS AT LEAST
40%. LOWEST MID-TERM MARK WILL BE DISCARDED.**

COURSE CONTENT:

<u>Topic</u>	<u>Chapter</u>
Systems of Linear Equations and Matrices	1
Determinants	2
Vectors in 2-Space and 3-Space	3
Vector Spaces	4
Applications Selected from other sources	

We will be covering one chapter per two weeks (approximately). At the end of five weeks we will have our first mid-term. The second mid-term will be held during the tenth week of classes. The mid-terms will deal with material covered in the previous five weeks. The final exam will be cumulative, covering all topics studied during the semester.

There will be weekly assignments and **NO LATE ASSIGNMENTS WILL BE ACCEPTED.**