F93

GRANDE PRAIRIE REGIONAL COLLEGE
Department of Computer Systems Technology
Course Outline

CT 1440 - APPLIED MATHEMATICS I 3(4-1)

INSTRUCTOR: Joseph Alfonso

OFFICE: C209

PHONE: 539-2734

MATERIALS REQUIRED: Text: Algebra and Trigonometry with Analytic Geometry, 8th Edition; Swokowski, Cole.

PREREQUISITE: Mathematics 30 or 33 or equivalent.

COURSE DESCRIPTION: An introductory course covering Logic, Sets, Fundamentals of Algebra, Equations & Inequalities, Functions and Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Analytical Geometry and Trigonometry, and further topics in Algebra, Geometry and Trigonometry.

COURSE OBJECTIVES: This course will provide an introduction to topics in Logic and College Algebra. The material covered is used extensively in Computer Science for Graphics, Data Structures and Theoretical Computer Science.

GRADING:

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 A LEAST 40%. LOWEST MID-TERM MARK WILL BE DISCARDED.**

COURSE CONTENT:

Topic	Text Chapters
Fundamental Concepts of Algebra	1
Equations and Inequalities	2
Functions and Graphs	3
Polynomial and Rational Functions	4
Exponential and Logarithmic Functions	5
The Trigonometric Functions	6
Sequences, Series and Probability	10
Systems of Equations and Inequalities	9 (if time permits)
Applications of Trigonometry	8 (if time permits)

SCHEDULE: The first week will be devoted to Logic. We will be covering one chapter per week and a half (approximately). At the end of five weeks we will have our first midterm. The second midterm will be held during the tenth week of classes. The midterms will deal with material covered in the previous five weeks. The final exam will be cumulative, covering all topics studied during the semester.

ASSIGNMENT POLICY: There will be weekly assignments and NO LATE ASSIGNMENTS WILL BE ACCEPTED.