CT144 APPLIED MATHEMATICS 1

INSTRUCTOR: JOSEPH ALFONSO OFFICE: F262 EXT: 2966

TEXTS: COLLEGE ALGEBRA 4th ed. Raymond A. Barnett & Michael R. Ziegler

ESSENTIALS of COMPUTER MATHEMATICS S. Lipschutz

GRADING:

ASSIGNMENTS	10%
MIDTERMS (2)	40%
FINAL*	50%

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

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

COURSE DESCRIPTION: An introductory course covering Logic, Sets, Directed Graphs, Fundamentals of Algebra, Equations & Inequalties, Functionsand Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Systems of Equations & Inequalities, and Further Topics in Algebra.

COURSE OBJECTIVES: This course will provide students with a basic understanding of algebra, functions, systems of equations, matrix algebra and their applications. Functions deals with the relationship between variables and is used extensively in business and computer science. Systems of linear equations deals with the relationship between constraints and how to allocate resources effectively. Systems of linear equations are most easily solved using the methods of matrix algebra.

CHAPTERS TO BE COVERED:

ESSENTIALS of COMPUTER MATHEMATICS

Chapter		Logic

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Chapter	1	Preliminaries
	2	Exponents and Radicals
	3	Equations and Inequalities
	4	Graphs and Functions
	5	Exponential and Logarithmic Functions
	6	Polynomial Functions: Graphs and Zeros
	7	Systems of Equations and Inequalities
	8	Matrices and Determinants
	9	Sequences and Series
if time permits	10	Additional Topics in Analytic Geometry

Schedule

We will be covering one chapter per week(approximatly) except during the week of midterms and the final week of classes which will be used for review.