



Name of School:

Name of Course: **Discrete Math**

Instructor Information

Name:

E-mail address:

School phone number:

Web page address:

Best times to be reached:

Course Description

This course is designed to lay the groundwork for mathematics applications in computer science, business and applied mathematics. It will help prepare students for non-technical careers that use modern technology. Matrices, determinants, probability, logic theory, graph theory and statistics will be used to create models for solving problems.

District Standards and Power Benchmarks

Numbers and Operations Standard: Understands and applies concepts of numbers and operations.

- 1: Understands numbers, ways of representing numbers, relationships among numbers, and number systems

Algebra Standard: Understands and applies concepts of algebra and functions

- 1: Understands patterns, relations and functions

Data Analysis & Probability Standard: Understand and apply concepts of data analysis and probability

- 2: Selects and uses appropriate statistical methods to analyze data
- 4: Understands and applies concepts of probability

Problem Solving Standard: Understands and applies problem solving strategies

- 1: Uses a variety of strategies to solve problems

Communication Standard: Communicates and reasons mathematically

- 2: Uses tools (such as technology) to enhance mathematical learning

Course Information

Course length: Two terms

Credits: .5 per term

Prerequisite: Algebra 2

Course Outline/Calendar

Term 1:	Election Theory Graphs and Their Applications Systems of Linear Equations and Matrices Markov Chains Mathematics of Finance House Project
Term 2:	Logic Sets and Probability Counting Principles; Further Probability Topics Statistics Game Theory

Text/Other Required Materials/Resources

Title: *Finite Mathematics*
Author: Lial, Greenwell, Ritchey
Publisher: Pearson Addison Wesley (2008)

Instructional Procedures & Support

Students are expected to bring all supplies to class every day including the textbook, a notebook, pencil and graphing calculator. Students are expected to participate in class discussions and in small group discussions. Written assignments will be given daily and should be completed before the next class period. Good attendance and punctuality are essential for success in this course.

Classroom Management Procedures

1. Students are expected to be in class and on time.
2. All tardies will result in a classroom consequence.
3. All unexcused absences will be dealt with according to the school attendance policy.
4. Students are responsible for completing make-up work in a timely manner.

Assessment Plan

Assignments	20%
Quizzes/Tests	65%
Final Exam	15% (Use of formula sheet <u>only</u> , No notes)

Grading System

Grades will be determined by the DCSD Grading Scale.

100-90	A
89-80	B
79-70	C
69-60	D
59-0	F