

**Finite Math
Course Description**

Chapter 1 - Straight Lines and Linear Functions

- 1.1 The Cartesian Coordinate System
- 1.2 Straight Lines
- 1.3 Linear Functions and Mathematical Models
- 1.4 Intersection of Straight Lines

Chapter 2 - Systems of Linear Equations and Matrices

- 2.1 Systems of Linear Equations : An Introduction
- 2.2 Systems of Linear Equations : Unique Solutions
- 2.3 Systems of Linear Equations : Underdetermined and Overdetermined Systems
- 2.4 Matrices
- 2.5 Multiplication of Matrices
- 2.6 The Inverse of a Square Matrix

Chapter 3 - Linear Programming : A Geometric Approach

- 3.1 Graphing Systems of Linear Inequalities in Two Variables
- 3.2 Linear Programming Problems
- 3.3 Graphical Solution of Linear Programming Problems

Chapter 5 - Mathematics of Finance

- 5.1 Compound Interest
- 5.2 Annuities

Chapter 6 - Sets and Counting

- 6.1 Sets and Set Operations
- 6.2 The Number of Elements in a Finite Set

6.3 The Multiplication Principle

6.4 Permutations and Combinations

Chapter 7 - Probability

7.1 Experiments, Sample Spaces, and Events

7.2 Definition of Probability

7.3 Rules of Probability