

Finite Mathematics

YEAR COURSE OFFERED: Every Year

SEMESTER COURSE OFFERED: Every Fall

DEPARTMENT: Math

COURSE NUMBER: 1324

NAME OF COURSE: Finite Mathematics

NAME OF INSTRUCTOR: Varies

The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Learning Objectives

The student will master the following topics:

- Straight Lines and Linear Functions,
- System of Linear Equations and Matrices,
- Linear Programming: A Geometric Approach,
- Mathematics of Finance,
- Sets and Counting
- Probability,
- Probability
- Distributions and
- Statistics

Major Assignments/Exams

Three tests and a cumulative final exam.

Required Reading

Finite Mathematics: An Applied Approach, 11th Edition by Michael Sullivan
September 2011, ©2011 J. Wiley Publisher

Recommended Reading

None

List of discussion/lecture topics

1: Linear Equations.

2: Systems of Linear Equations.

3: Matrices.

4: Linear Programming with Two Variables.

5: Linear Programming: Simplex Method.

6: Finance.

7: Probability.

8: Bayes' Theorem; The Binomial Probability Model.

9: Statistics.

10: Markov Chains; Games.

11: Logic.