WILMINGTON UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
BASIC COURSE INFORMATION

COURSE NUMBER: MAT320

COURSE TITLE: Finite Mathematics

Faculty Name:

Contact Information:

Pre-Requisite: MAT121 with a minimum grade of C or college algebra equivalent

Text/Software:

Credits: 3

40 Hours of Structured Learning Activities

COURSE DESCRIPTION: This course provides a survey of selected topics in mathematics, with emphasis on problem solving and applications. Core topics include linear, quadratic, polynomial, rational, exponential and logarithmic functions, systems of linear equations, linear programming, matrix operations, and an introduction to set theory.

At the conclusion of this course students will be asked to evaluate the course based on the following objectives:

IDEA – 1 Gain factual knowledge (terminology, classifications, methods, trends).
IDEA – 2 Learn fundamental principles, generalizations or theories.
IDEA – 3 Learn to apply course material (to improve thinking, problem solving and decisions).
COURSE GOALS

GOAL A:
Analyze functions

Learning Objectives: The student will:
A-1 Interpret and create linear models.
A-2 Solve linear, polynomial and rational inequalities.
A-3 Simplify and graph polynomial functions, including linear and quadratic.
A-4 Simplify and graph rational functions.
A-5 Simplify and graph exponential and logarithmic functions.
A-6 Solve exponential and logarithmic equations, especially with applications.

GOAL B:
Design and solve linear programming problems

Learning Objectives: The student will:
B-1 Solve systems of linear equations.
B-2 Solve applications of linear equations.
B-3 Solve linear programming problems graphically.
B-4 Use matrix operations.
B-5 Solve linear programming problems using matrices.
B-6 Solve linear programming problems using the simplex method.

GOAL C:
Use the language and notation of sets.

Learning Objectives: The student will:
C-1 Use set notation.
C-2 Perform operations on sets.
C-3 Analyze set relationships using Venn diagrams.
C-4 Apply the addition rule for counting.

EVALUATION PROCEDURE AND GRADING POLICY:

LATE ASSIGNMENT POLICY:

CAS CLASSROOM STANDARDS: See Blackboard “Syllabus” area
IDEA Objectives: E=1
I=2,3

COURSE SCHEDULE (all assignments/exams and due dates):