

Miami-Dade Community College
MGF 1120 BASIC PROBABILITY

Course Description: The purpose of this course is to introduce students to topics in probability and statistics from a real-world perspective.

Pre-requisite: MAT 1033 (Intermediate Algebra) or suitable placement score.

Competency 1: The student will be able to solve real-world problems that require the use of the basic counting techniques:

- a. The Multiplication Rule (or Fundamental Counting Principle)
- b. Combinations
- c. Permutations

Competency 2: The student will have a working knowledge of basic probability theory, including being able to:

- a. Calculate probabilities of simple, compound and conditional events.

Competency 3: The student will have a working knowledge of basic concepts in statistics, including being able to:

- a. Interpret real-world data presented in graphs, charts and tables, as well as relationships between data sets.
- b. Calculate and understand relationships between measures of central tendency.
- c. Solve problems involving the Normal Probability Distribution.

