



MONROE COUNTY  
COMMUNITY COLLEGE

# Course Outcome Summary

**General Education Satisfier Course**

**MATH 126 Mathematics for Business**

## Course Information

Division	Science/Mathematics
Contact Hours	45
Total Credits	3

## Prerequisites

RDG 090 and ENGL 090 and MATH 092 or qualifying score on *accepted placement tests*

## Course Description

This is an algebra based business mathematics course emphasizing applications to problems in accounting and finance. Topics covered include payroll, taxes, markup, interest, loans, annuities, depreciation, stocks, and bonds. Technology will be utilized to assist students with the calculations.

**This course is approved as a General Education competency satisfier.**

**General Education Goal:** Critical Thinking

**Competency:** Use numbers and quantitative relationships

**Learning Outcome:** Students will apply mathematical concepts and methods to understand, analyze, and communicate in quantitative terms

## General Education Learning Objectives

- Use arithmetic and geometric concepts and representations to solve, estimate, calculate, and check answers to problems to determine the reasonableness of results.
- Utilize linear, exponential and other nonlinear models to evaluate the nature of relationships in real world problems.
- Organize, analyze, and interpret various representations of data, including functions, graphs and tables.
- Utilize a variety of problem solving strategies to solve problems and communicate findings using appropriate mathematical language and symbolism.



## Course Outcomes

In order to evidence success in this course, the students will be able to:

1. Demonstrate factual knowledge including the mathematical notation and terminology used in this course. Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in business mathematics.

Applies to General Education Objective

- A. Use arithmetic and geometric concepts and representations to solve, estimate, calculate, and check answers to problems to determine the reasonableness of results.
  - B. Utilize linear, exponential and other nonlinear models to evaluate the nature of relationships in real world problems.
  - C. Organize, analyze, and interpret various representations of data, including functions, graphs and tables.
  - D. Utilize a variety of problem solving strategies to solve problems and communicate findings using appropriate mathematical language and symbolism.
2. Describe the fundamental principles arising from the mathematical ideas associated with business applications. Students will identify and apply the proper relationships and formulas that result directly from the definitions.

Applies to General Education Objective

- A. Use arithmetic and geometric concepts and representations to solve, estimate, calculate, and check answers to problems to determine the reasonableness of results.
  - B. Utilize linear, exponential and other nonlinear models to evaluate the nature of relationships in real world problems.
  - C. Organize, analyze, and interpret various representations of data, including functions, graphs and tables.
  - D. Utilize a variety of problem solving strategies to solve problems and communicate findings using appropriate mathematical language and symbolism.
3. Apply the course material along with techniques and procedures to solve business related problems. Students will use the facts, formulas, graphs, and data, along with the techniques learned in this course, to solve basic business problems.

Applies to General Education Objective

- A. Use arithmetic and geometric concepts and representations to solve, estimate, calculate, and check answers to problems to determine the reasonableness of results.
- B. Utilize linear, exponential and other nonlinear models to evaluate the nature of relationships in real world problems.
- C. Organize, analyze, and interpret various representations of data, including functions, graphs and tables.
- D. Utilize a variety of problem solving strategies to solve problems and communicate findings using appropriate mathematical language and symbolism.