

SOUTHEAST COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES
Mathematics
Revision Date: 07-01-24

I. CATALOG DESCRIPTION

Course Number: MATH0952
Course Title: Beginning Algebra Modular II
Prerequisites: A grade of "B" or higher in MATH0951 OR co-enrollment in MATH0951. The prerequisite must be completed before the current course is completed.
Catalog Description: Graphing lines and linear inequalities in two variables; finding slope and equations of lines; introduction to polynomial identification, addition, subtraction, and exponent rules.
Credit Hours: 1.0
Class Hours: 15
Lab Hours: 0
Total Contact Hours: 15

II. COURSE OBJECTIVES: *Course will:*

- A. Apply the use of the rectangular coordinate system.
- B. Demonstrate techniques for graphing linear equations and inequalities in two variables.
- C. Produce techniques for finding slope and equations of lines between two points.
- D. Produce techniques for finding equations of parallel, perpendicular, horizontal, and vertical lines.
- E. Devise techniques for adding and subtracting polynomials and using the product and power rules for exponents when simplifying polynomials.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Graph linear equations and inequalities in two variables.
 - 2. Find and interpret slope of a line.
 - 3. Solve applied problems.
 - 4. Add and subtract polynomials.
 - 5. Apply the product and power rule for exponents.
- B. General Education Learning Outcomes
 - 1. GELO #5: Analytical, Quantitative, and Scientific Reasoning
 - Outcome: Apply mathematical and scientific methods to solve problems from an array of contexts and everyday situations.
 - Outcome: Manipulate formulas, data sets, graphs, tables, etc. in a way to produce a meaningful outcome.

IV. CONTENT/TOPICAL OUTLINE (*course outline may provide more detailed information*)

- A. Basic algebra skills are extended in this course to provide the background for further mathematics courses. Main units of this course are as follows:
 - 1. Introduction to Graphing Linear Equations
 - 2. Slope, Equations of Lines, and Linear Inequalities in Two Variables
 - 3. Introduction to Polynomials and Exponent Rules

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

1. Direct Digital Access to MyLab Math (through Canvas) will be billed to your student account. ISBN: 9780136824749.

B. Other Resources:

1. Supplies: Paper and writing instrument, scientific calculator recommended.

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of following:

1. Assigned reading and homework assignments for the student to do in class or outside of class on MyMathLab.
2. Individual tutorial with the student on any subject matter which the student is having difficulty comprehending.
3. Additional tutorial through the Multi Academic Center.
4. Mini-lectures

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. MyMathLab HW
2. Module exam

B. GRADING SCALE

A+	95-100
A	90-94
B+	85-89
B	80-84
F	79 or less

VIII. SPECIFIC COURSE REQUIREMENTS

- A.** To successfully complete this course, the student must complete all assigned work and score 80% or better on the module exam. All work must be completed by the end of the quarter the student is registered.