

**SOUTHEAST COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES**

Mathematics

Revision Date: 07-01-24

I. CATALOG DESCRIPTION

Course Number: MATH0953
Course Title: Beginning Algebra Modular III
Prerequisites: A grade of “B” or higher in MATH0952 OR co-enrollment in MATH0952. The prerequisite must be completed before the current course is completed.
Catalog Description: Study of scientific notation, multiplying and dividing polynomials, factoring polynomials, solving quadratic equations by factoring, operations with rational expressions and introduction to function notation.
Credit Hours: 1.0
Class Hours: 15
Lab Hours: 0
Total Contact Hours: 15

II. COURSE OBJECTIVES: *Course will:*

- A. Employ techniques of working with operations on polynomials.
- B. Distinguish techniques to factor polynomials.
- C. Develop techniques of working with operations on rational expressions.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Evaluate functions and recognize function notation.
 - 2. Simplify expressions involving scientific notation.
 - 3. Simplify polynomial and rational expressions.
 - 4. Solve applied problems.
- 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: Effectively develop strategies, algorithms, or experiments (or performing experiments) to better describe the systems or to solve the problems.

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. Multiplying and Dividing Polynomials
 - 2. Factoring
 - 3. Function Notation and Rational Expressions

V. INSTRUCTIONAL MATERIALS

- A. Required Text(s):
 - 1. Direct Digital Access to MyLab Math (through Canvas) will be billed to your student account. ISBN: 9780136824817.
- 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. SCC 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.