

SOUTHEAST COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES
Mathematics
Revision Date: 07-01-23

I. CATALOG DESCRIPTION

Course Number: MATH0901
Course Title: Math Fundamentals Modular I
Prerequisite(s): Appropriate score on math placement test
Catalog Description: Review of operations with whole numbers, integers, study of order of operations, exponents, factors, GCF, LCM/LCD, and operations with fractions.
Credit Hours: 1.0
Class Hours: 15
Lab Hours: 0
Total Contact Hours: 15

II. COURSE OBJECTIVES: *Course will:*

- A. Develop computational skills for whole numbers and fractions.
- B. Develop techniques for simplifying mathematical expressions containing whole numbers, integers, fractions, and exponents.
- C. Develop techniques for solving application/word problems involving whole numbers, integers, and fractions.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Add, subtract, multiply, and divide whole numbers, integers, and fractions.
 - 2. Apply the order of operations to simplify expressions involving whole numbers, integers, and fractions.
 - 3. Simplify expressions containing whole numbers, integers, exponents, and fractions.
 - 4. Do word problems involving whole numbers, integers, and fractions.
- 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.

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

- A. The following topics will be covered in the course:
 - 1. Operations with whole numbers.
 - 2. Order of operations with exponents and whole numbers.
 - 3. Application/word problems using whole numbers.
 - 4. Operations with integers.
 - 5. Factors, prime factors, GCF.
 - 6. Multiplication and division of fractions.
 - 7. LCM/LCD.
 - 8. Addition and subtraction of fractions.
 - 9. Application problems using fractions.

V. INSTRUCTIONAL MATERIALS

- A. Required Text(s):
 - 1. Direct Digital Access to MyLab Math (through Canvas) will be billed to your student account. ISBN: 9780136821205.
- B. Other Resources:
 - 1. Supplies: Paper and writing instrument.

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.