

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

Mathematics

Revised Date: 01-01-21

I. CATALOG DESCRIPTION

Course Number: MATH0995
Course Title: Topics in Beginning Algebra
Prerequisite(s): Appropriate placement score
Corequisite(s): Concurrent enrollment in MATH1100 Intermediate Algebra
Catalog Description: This class is a companion course for students who are co-enrolled in MATH1100. Students should elect to take this course to get regular, focused instruction from a faculty member in a small cohort. Beginning Algebra topics will be taught in this MATH0995 course and will be developed in more detail and applied throughout the concurrent MATH1100 Intermediate Algebra course.
Credit Hours: 1.0
Class Hours: 15
Lab Hours: 0
Total Contact Hours: 15

II. COURSE OBJECTIVES: *Course will:*

- A. Provide students focused instruction and review of previous coursework pertinent to current Math 1100 Intermediate Algebra course content.
- B. Provide students assistance with math study skills.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Solve linear equations and inequalities with one variable.
 - 2. Solve an equation for a particular variable.
 - 3. Graph a linear equation on the rectangular coordinate system by plotting points, slope-intercept form, and by finding the intercepts.
 - 4. Graph a linear inequality on the rectangular coordinate system.
 - 5. Factor polynomials.
 - 6. Simplify Radicals containing perfect squares.
 - 7. Write an integer in factored form using prime factorization.
 - 8. Keep organized notes, handouts, questions, and deadlines.
 - 9. Practice and show work on problems through homework, guided examples, group work, or quizzes.
- 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. Solving linear equations and inequalities in one variable.
- B. Graphing and evaluating functions.
- C. Solving an equation for a particular variable.
- D. Graphing linear equations and inequalities in two variables.

- E. Adding, subtracting, multiplying, and dividing polynomials.
- F. Factoring polynomials, and solve polynomial equations by factoring.
- G. Simplifying, multiplying, and dividing rational expressions.
- H. Finding least common denominator to add and subtract rational expressions.
- I. Finding prime factorization and simplifying perfect squares.

V. INSTRUCTIONAL MATERIALS

- A. Resources
 - 1. Supplemental handouts as supplied by instructor.
 - 2. Materials and assignments from other courses.
 - 3. Math 1100 textbook and electronic access code.

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Methods of presentation typically include a combination of the following:
 - 1. Lecture
 - 2. Small Group Work
 - 3. Guided Practice
 - 4. Interactive elements/methods

VII. METHODS OF EVALUATION

- A. Methods of evaluation typically include a combination of the following:
 - 1. Quizzes
 - 2. Homework
 - 3. Notebook
 - 4. Worksheets
- B. SCC GRADING SCALE

A+	95-100	C+	75-79	F	59 or less
A	90-94	C	70-74		
B+	85-89	D+	65-69		
B	80-84	D	60-64		

VIII. SPECIFIC COURSE REQUIREMENTS:

- A. Refer to instructor's course information for specific course requirements.