SOUTHEAST COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES
Mathematics
Revised Date: 01-01-21
Syllabus Statements

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.