



Master Syllabus

MATH 0093 – Collaborative Learning Algebra

Revision Date: August 14, 2018

Previous Revision Dates (list all): 3/2018

Course Credit Value: 3

If taught in a 15 week semester, students spend the following clock hours, each week in:

Lecture: 3

Laboratory: 0

Clinical Experience/Internship/Workplace experience: 0

Pre and/or Co Requisites:

Pre-Requisite(s): ACT MATH score of 18 or COMPASS Algebra score of 31-39

Concurrency: None

Co- Requisite(s): MATH 1105

Equivalency SLCC: LFMA 0093

Equivalency BOR: NA

Course Description: MATH 0093 is a supplement to the MATH 1105 course. LFMA 0093 provides guidance and practice of the foundational algebraic skills of solving and graphing linear equations and inequalities, operations on polynomials and factoring, solving quadratic equations, and operations on rational expressions along with support and additional exposure to the basic skills of functions and systems of linear equations required to succeed in a college algebra course. A scientific calculator is required; a graphing calculator is optional. This is a supplemental course that cannot be used for certificate or degree programs. Students enrolled in LFMA 0093 must also be enrolled in the designated companion MATH 1105 during the same semester.

Student learning Outcomes:

As a result of successful completion of this course the student will be able to:

1. Solve linear equations and simple linear inequalities in one variable and quadratic equations by factoring and using the quadratic formula.
2. Graph the equation of a line using various methods.
3. Write equations of lines given various criteria.
4. Perform arithmetic operations on, evaluate and completely factor polynomials.
5. Simplify rational expressions completely.

NOTE: The intention of this master course syllabus is to provide you with an overview of the contents of this course, as specified by the faculty of South Louisiana Community College. Please note: individual course syllabi will reflect the diversity of individual approaches to course material and assessment. OAA (3-16-18)

Course Content:

- I. Real Numbers and Solving Equation
 - A. Operations with Real Numbers
 - B. Linear Equations in One Variable
 - C. Linear Inequalities in One Variable
- II. Linear Equations in Two Variables
 - A. Cartesian Coordinate System and Linear Equations
 - B. Slope-Intercept Form
 - C. Point-Slope Form
- III. Polynomials
 - A. Addition and Subtraction with Polynomials
 - B. Multiplication with Polynomials
 - C. Introduction to Factoring Polynomials
 - D. Factoring Trinomials
 - E. Special Factoring Techniques
- IV. Rational Expressions
 - A. Simplifying Rational Expressions
 - B. Multiplication with Rational Expressions
 - C. Division with Rational Expressions
- V. Quadratic Equations
 - A. Solving Quadratic Equations
 - B. The Quadratic Formula
- VI. Functions
- VII. Systems of Linear Equations
 - A. Substitution Method
 - B. Elimination/Addition Method

Methods of Delivery: Lecture

Assessment: Student learning in this course will be monitored and measured using a minimum of the following: homework, quizzes and a comprehensive final exam.

Grading Scale: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 0-59

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