

Course Syllabus
Southeast Missouri State University

Department of Mathematics
Title of Course: Concepts of School Mathematics Lab

Course No. MA021
New: Fall 2014

I. Catalog Description and Credit Hours of Course:

This course satisfies the developmental mathematics requirement for students enrolled in MA218 who do not meet the ACT mathematics subscore requirement of 22 or higher. (1)

II. Pre and Co-requisite(s):

Secondary education major and co-enrollment in MA218 and ACT Math score below 22 or MA050 with a grade of 'NDC' or higher.

III. Purposes and Objectives of the Course:

This course is intended to improve students' mathematical skills utilized in MA218.

IV. Student Learning Outcomes:

- A. Students will be able to perform basic computations involving rational numbers, order of operations, and exponents.
- B. Students will be able to simplify algebraic expressions.
- C. Students will be able to graph and identify characteristics of functions.

V. Expectations of Students:

- A. Attend class regularly
- B. Participate in and complete all classroom activities
- C. Read all assigned material
- D. Demonstrate mastery of course objectives

VI. Course Outline:

Topics	Class hours
A. Operations in Various Number Systems	8
B. Order of Operations, Exponents and Roots	4
C. Algebraic Expressions (simplifying and evaluating)	4
D. Linear Equations (solving, graphing, system solutions)	4
E. Patterns and Sequences	3
F. Functions (domain, range, graphs)	4
G. Assessment	3
Total hours	30

VII. Textbook

MyMathLab. Pearson.

VIII. Basis of Student Evaluation:

Classwork	60%
Quizzes	40%