

**Course Syllabus**  
**Southeast Missouri State University**

**Department of Mathematics**  
**Title of Course: Mathematics I Lab**

**Course No. MA018**  
**New: Fall 2014**

**I. Catalog Description and Credit Hours of Course:**

This course satisfies the developmental mathematics requirement for students enrolled in MA118 who do not meet the ACT mathematics subscore requirement of 22 or higher. (1)

**II. Pre and Co-requisite(s):**

Declared education major in elementary, early childhood, exceptional child, middle school, or human environmental studies: child development option major. Co-enrollment in MA118 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 MA118.

**IV. Student Learning Outcomes:**

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