

Course Syllabus
Southeast Missouri State University

Department of Mathematics
Title of Course: Statistical Reasoning Lab

Course No. MA055
Revision: Fall 2014

I. Catalog Description and Credit Hours of Course:

This course satisfies the developmental mathematics requirement for students enrolled in MA155 who do not meet the ACT mathematics subscore requirement of 22 or higher. (1)

II. Pre and Co-requisite(s):

Co-enrollment in MA155 and ACT Math score below 22 or MA050 with a grade of 'NDC' or higher.

III. Purposes of the Course:

This course is intended to improve students' mathematical skills utilized in MA155.

IV. Student Learning Outcomes:

- A. Students will be able to write the equation of and graph a line.
- B. Students will be able to simplify an expression using the rules for order of operations.
- C. Students will be able to solve linear equations

V. Expectations of Students:

- A. Regular class attendance.
- B. Read all materials assigned.
- C. Participate in and complete all classroom activities.
- D. Demonstration of mastery of course content on quizzes.

VI. Course Outline:

Topic	Hours
State prime factorization and find least common multiple of positive integers.	2
Reduce fractions and convert between fractions and decimals.	2
Classify numbers; plot and order real numbers on a number line.	2
Add, subtract, multiply, and divide integers and rational numbers in fractional and decimal form.	4
Simplify expressions using rules for order of operations.	3
Evaluate exponential expressions using rules of exponents.	2
Simplify and evaluate radical expressions.	2
Write the equation of and graph a line.	4
Determine intersection and union of two sets.	2
Apply the counting rule.	1
Evaluate geometric formulas; solve a formula for a variable.	2
Solve linear equations.	2
Solve simple rational equations.	2
Total	30

VII. Textbook:

MyMathLab, Pearson.

VIII. Basis of Student Evaluation:

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| A. Classwork | 60% |
| B. Quizzes | 40% |