

Southeast Missouri State University

Department of Mathematics
Title of Course: Basic Math Skills

Course Number: MA050
Start Date: Fall 2011

I. Catalog Description and Credit Hours of Course

This course is designed to review the basic operations of arithmetic; to understand and perform operations with signed numbers; and an introduction to algebra. This course will prepare students to take MA101 Beginning Algebra.

Course Grade: NDA, NDB, NDC, NDD or NDF (3 credit hours)

II. Prerequisite

ACT math subscore of 14 or lower

III. Purpose of Course

This course is intended for those students who lack the prerequisite skills necessary to be successful in MA101. Emphasis will be placed on techniques and manipulations, but logical reasoning and problem solving will be a prominent objective throughout the course. The instruction methods will be varied to enable these students to learn the techniques and reasoning skills that will allow them to be successful in future math courses. Throughout the course, connections between verbal, numerical, symbolic and graphical representations of concepts through visual and tactile means will be emphasized.

IV. Expectations of Students.

- a. Attend class and actively participate in classroom activities.
- b. Complete all assignments—both online and paper and pencil.
- c. Perform adequately on quizzes and tests.

V. Attendance Policy

To prepare students for MA101, the same attendance policy will be enforced. After the equivalent of two weeks of absences (for a 3-days-a-week class 6 absences, for a 2-days- a week class 4 absences), the student will be referred for academic withdrawal from MA050. University sanctioned absences will be excused.

VI. Course Outline

- A. Operations with whole numbers
- B. Multiplication, division, addition and subtraction of fractions
- C. Operations with decimals
- D. Ratio and proportion
- E. Percent
- F. Introduction to and operations with signed numbers
- G. Introduction to algebra

VII. Textbook

Martin-Gay, Elayn (2011) Basic College Mathematics (4th ed.), Pearson-Addison Wesley, Boston MA.

VIII. Basis of Student Evaluation

Assignments and class activities 15%
Quizzes 15%
Tests 50%
Final Exam 20%