

MATH 0500 Pre-Algebra Common Course Outline

A. COURSE DESCRIPTION

1. Credits: 0
2. Lecture Hours and Lab Hours per Week: 0
3. Prerequisites: MATH 0601, MATH 0602 or MATH 0603
4. Co-requisites: None
5. MnTC Goals: None

Proficiency course for Pre-Algebra topics including signed numbers, proportions, fractions, decimals, geometry, graphing, beginning equations, and problem solving. ***Students cannot register for this course.*** Students who successfully complete Level 1 of MATH 0601, MATH 0602, or MATH 0603 are given this course with a grade of P on their transcript automatically. The purpose of this course is to serve as a means to state for other programs and institutions that a student has mastered this level of mathematics material

B. DATE LAST REVISED: (January 2016)

C. OUTLINE OF MAJOR CONTENT AREAS

1. Arithmetic of Signed Numbers
2. Introduction to Algebra
3. Fractions, Decimals, Percent Using Algebra
4. Ratio, Proportion, Geometry, and Measurement Using Algebra
5. Introduction to Graphing

D. LEARNING OUTCOMES

Upon successful completion of MATH 0500 students will be able to:

1. Accurately calculate with signed numbers, fractions, and decimals.
2. Translate English phrases into algebraic expressions.
3. Use the Principles of Equality to solve linear equations.
4. Set up and solve algebraic problems involving percent, proportions, area, perimeter, volume, and conversion of units.
5. Plot and identify points on the coordinate axes.
6. Make tables of values and graph linear equations.

E. LEARNING OUTCOMES (Mn Transfer Curriculum) No Transfer Curriculum Outcomes

F. METHODS FOR EVALUATION OF STUDENT LEARNING

The instructor will choose from among various evaluation techniques including – but not limited to – in-class testing, take-home testing, assignments, quizzes, attendance, group or individual projects, and research. The instructor will also choose a method for end-of-the-semester evaluation.

G. SPECIAL INFORMATION

1. Internet access is highly recommended. Content, learning aids, and testing are available online.
2. Grade of P will be automatically given upon successful completion of Level 1 of MATH 0601, MATH 0602 or MATH 0603.