MATH 0600 Elementary 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 2 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. Solving Equations and Inequalities
2. Operations on Polynomials
3. Graphs and Equations of Lines
4. Systems of Equations

D. LEARNING OUTCOMES

Upon successful completion of MATH 0600 students will be able to:

1. Apply the commutative, associative, and distributive laws of real numbers.
2. Simplify algebraic expressions using the correct order of operations.
3. Solve linear equations and inequalities in one variable.
4. Convert verbal expressions into algebraic form; solve applied problems.
5. Plot points and graph lines from tables of values and x– and y–intercepts.
6. Determine slope of a line from its graph, equation, or two points on the line.
7. Graph linear equations given a point and the slope.
8. Apply the rules for exponents.
9. Solve problems using scientific notation.
10. Add, subtract, multiply, and divide polynomials.
11. Use a calculator appropriately in all Major Content Areas

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 2 of MATH 0601, MATH 0602 or MATH 0603.