North Hennepin Community College

MATH 0800: Pre-Algebra

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The focus of this course is preparing students for the algebra sequence. Application of topics should be emphasized. Topics covered include: performing operations with integers, fractions, & decimals; solving application problems involving integers, fractions, & decimals; performing basic algebra skills including identifying algebraic components, combining like terms, & using the distributive property; & introduction to percents. Credit does not apply to a degree.

Prerequisite: Placement Test

B. COURSE EFFECTIVE DATES: 08/27/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Add, subtract, multiply, and divide: fractions (ELO 1, 2);
2. Add, subtract, multiply, and divide: decimals (ELO 1, 2);
3. Add, subtract, multiply, and divide: integers (ELO 1, 2);
4. Correctly apply the order of operations to expressions involving combinations of whole numbers, integers, fraction, and/or decimals (ELO 1, 2);
5. Find the perimeter and area of rectangles and triangles (ELO 1, 2);
6. Solve application problems involving fractions (ELO 1, 2);
7. Solve application problems involving decimals (ELO 1, 2);
8. Solve application problems involving integers (ELO 1, 2);
9. Understand percents and convert between percents, decimals, and fractions (ELO 1, 2);
10. Solve one-step percent problems of the form amount = percent * base (ELO 1, 2);
11. Identify algebraic expressions and their components, such as coefficients, variables, and terms (ELO 1, 2);
12. Perform individual algebraic skills including: combining like terms and using the distributive property (ELO 1, 2);
13. Evaluate algebraic expressions by substitution (ELO 1, 2); and
14. Solve one-step linear equations (ELO 1, 2).

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

1. Knowledge of Human Cultures and the Physical and Natural World --Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.

2. Intellectual and Practical Skills - Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.