

Course discipline/number/title: MATH 0093: Pre-Algebra

A. CATALOG DESCRIPTION

1. Credits: 3
2. Hours/Week: 3
3. Prerequisites (Course discipline/number): None
4. Other requirements: See placement guide for Math and Reading requirements
5. MnTC Goals (if any): NA

B. COURSE DESCRIPTION: This course is for the student whose placement test score indicates the need for a review of fractions, decimals, ratios, proportions, percent, signed numbers, polynomials/like terms, and solving basic linear equations in one variable before beginning elementary algebra. Calculator use is NOT allowed for the required content.

C. DATE LAST REVISED (Month, year): April, 2023

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Fractions
2. Decimals
3. Ratios and proportions
4. Percent
5. Signed numbers
6. Polynomials
7. Linear equations in one variable

E. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Perform operations (add, subtract, multiply and/or divide, including order of operations) with:
 - a) Fractions (proper, improper, mixed numbers)
 - b) Decimals
 - c) Signed numbers (including absolute value)
 - d) Polynomials
2. Perform conversions: between fractions, percent, decimals
3. Write ratios and solve proportions
4. Simplify and solve basic linear equations in one variable
5. Identify graphed points by their ordered pairs and plot points
6. Solve contextual problems: geometry and other topics

F. LEARNING OUTCOMES (MNTC): NA

G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:

1. Exams
2. Quizzes
3. Homework
4. Cooperative Group Assignments
5. Projects

H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s): Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.

I. SPECIAL INFORMATION (if any): None