COMMON COURSE OUTLINE: Course discipline/number/title: MATH 0081: Developmental Mathematics I

A. CATALOG DESCRIPTION
   1. Credits: 3
   2. Hours/Week: 3
   3. Prerequisites (Course discipline/number): Appropriate placement score
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

This is a self-paced, skill mastery developmental mathematics course. It is an individualized learning experience. The instructor will provide individualized instruction, guidance, and monitor progress. Students may progress beyond the course content, to continue progress through the MATH 0080's series. The student will demonstrate a minimum level of mastery of 75% for the content areas in the MATH 0080 series required to complete their program prerequisites.

B. DATE LAST REVISED (Month, year): June, 2014

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Integers
   2. Fractions
   3. Decimals
   4. Algebraic expressions
   5. Linear equations in one variable
   6. Percents

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Perform operations (add, subtract, multiply and/or divide, including Order of Operations with exponents) with integers, fractions (proper, improper, and mixed numbers), and decimals.
   2. Perform conversions between fractions, decimals, and percent.
   3. Find the LCD using prime factorization.
   4. Find the absolute value.
   5. Simplify and evaluate algebraic expressions.
   6. Solve one step linear equations in one variable with integers, fractions, and decimals.
   7. Identify and apply the properties of real numbers (identity property of zero, associative, commutative, distributive)
   8. Compute the mean, median, and mode of a given set of numbers.
   9. Read and interpret line, bar, and circle graphs.
   10. Solve contextual problems involving integers, decimals, fractions and percent (Types include: geometry, uniform motion, GPA, weighted mean, temperature, and interest.)

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Proctored computer/paper test
   2. Computer generated homework
   3. Homework Notebooks/Attendance

G. RCTC CORE OUTCOME(S) ADDRESSED:
   ☒ Communication
   ☒ Critical Thinking
   ☐ Global Awareness/Diversity
   ☐ Civic Responsibility
   ☐ Personal/Professional Accountability
   ☐ Aesthetic Response

H. SPECIAL INFORMATION (if any): None