Minnesota State University Moorhead

MATH 110: Introduction to Mathematics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
This course requires any of these seven prerequisites
    MATH 090 - Elementary Algebra
    MATH 090A - Elementary Algebra
    MATH 127L - College Algebra with Lab
    MSUM MATH 99 and 110 and 134
    A score of 1 on test Transfer Equivalent to Math 0090
    A score of 1 on test Transfer Equivalent to MATH 095
    A score of 1 on test Transfer Equivalent to MATH 099

Corequisites: None

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning

Algebra, sets, probability, and statistics. Computational proficiency will be assessed and mastery required. Must have successfully completed Elementary Algebra or Intermediate Algebra or an acceptable placement score. MnTC Goal 4.

B. COURSE EFFECTIVE DATES: 10/29/2012 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Demonstrate mastery of rational number computation without the use of a calculator.
2. Demonstrate the ability to apply the algebraic principles to represent and solve word problems involving fractions, ratios, proportions, and percents.
3. Demonstrate the ability to apply the notions, operations, and representations of set theory to specified situations.
4. Demonstrate the ability to analyze and interpret situations using the principles of counting and probability.
5. Demonstrate the ability to apply the basic concepts of statistics. This may include collecting data; representing data using tables and graphs; and finding measures of central tendency, variation, and position.
6. Demonstrate the ability to communicate and interpret solutions to mathematical problems in words, either orally or in writing.

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

Goal 04 - Mathematical/Logical Reasoning

1. Illustrate historical and contemporary applications of mathematical/logical systems.
2. Clearly express mathematical/logical ideas in writing.
3. Apply higher-order problem-solving and/or modeling strategies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted