

# 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 12 prerequisites

MATH 090A - Elementary Algebra

MATH 090 - Elementary Algebra

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

A score of 19 on test ACT Math

A score of 460 on test OLD-SAT Math

A score of 510 on test SAT Math Composite

A score of 76 on test Accuplacer Elementary Algebra

A score of 255 on test Accuplacer NG Quantitative Reasoning

A score of 234 on test Accuplacer NG Advanced Algebra Functions

A score of 1 on test MMCP Math

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