

Minnesota State University Moorhead

MATH 127: College Algebra

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:

This course requires any of these six prerequisites

MATH 095 - Elementary/Intermediate Algebra

MATH 099 - Intermediate Algebra

A score of 1 on test Transfer Equivalent to MATH 099

A score of 60 on test Intermediate Alg Placement Test - CAT

A score of 60 on test Accuplacer Intermediate Algebra

Algebra College Level

Corequisites: None

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning

Exponents, factoring, equations, inequalities, systems of equations, functions, exponential and logarithmic functions, polynomials and rational functions. Must have successfully completed Intermediate Algebra or have an acceptable placement score. MnTC Goal 4.

B. COURSE EFFECTIVE DATES: 06/01/1995 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Radicals and rational exponents
2. Factoring polynomials
3. Rational expressions
4. Graphs (lines, quadratic, exponential, logarithmic, polynomial, rational, transformations of graphs)
5. Solving equations (linear, quadratic, polynomial, rational, exponential, logarithmic, etc.)
6. Linear, polynomial, and rational inequalities
7. Functions (including inverse functions, exponential functions, and logarithmic functions)

D. LEARNING OUTCOMES (General)

1. Solve a variety of algebraic equations.
2. Create and understand graphs.
3. Work with a variety of functions.
4. Apply a variety of algebraic techniques to real world problems and applications.

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. Explain what constitutes a valid mathematical/logical argument(proof).
4. Apply higher-order problem-solving and/or modeling strategies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted