A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: *.*
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

An algebra course designed for students with an insufficient algebraic background for CS 1309, MATH 1100, MATH 1107, or MATH 1170. This course must be taken for a letter grade and, to use this course as a prerequisite for MATH 1100 or MATH 1107, a grade of C or better must be achieved, and to use this course as a prerequisite for CS 1309, MATH 1120 or MATH 1170, a grade of B or better must be achieved. Credits are not applicable towards graduation. Topics include solving linear and quadratic equations, applications, linear inequalities, factoring, operations on polynomials, rational and radical expressions, and graphing linear equations.

B. COURSE EFFECTIVE DATES: 08/21/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Linear and quadratic equations
2. Applications
3. Linear inequalities
4. Factoring
5. Operations on polynomials
6. Rational and radical expressions
7. Graphing linear equations

D. LEARNING OUTCOMES (General)

1. Perform operations on polynomial, rational, and radical expressions.
2. Factor polynomials using a variety of methods.
3. Translate between graphical, tabular, verbal, and symbolic representations of functions and relations.
4. Analyze graphs of a variety of functions.
5. Solve a variety of equations and linear inequalities.
6. Solve systems of equations using algebraic and graphical methods.
7. Use numerical, symbolic, and graphical methods to model, solve, and interpret the results of application problems.
8. Determine if a relation is a function and use function notation appropriately.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus
G. SPECIAL INFORMATION

None noted