Minnesota State College Southeast

MATH 1025: Algebra

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 2
Lab Hours/Week: *.*
OJT Hours/Week: *.*

Prerequisites:
This course requires any of these three prerequisite categories
1. Both of these groups
   1. Any one of these three
      MATH 0544 - Pre-College Math (4 cr)
      MATH 0533 - Pre-College Math (3 cr)
      MATH 0522 - Pre-College Math (2 cr)
   And
   2. One of these two
      Writing College Level
      FYEX 1000 - College Success Strategies
   Or
   2. Math Level 1
   Or
2. Math Level 1
Or
3. Algebra College Level

Corequisites: None

MnTC Goals: None

This course covers inequalities, rational expressions, exponents and radicals. Students develop skills in the solution of absolute value, quadratic and radical equations. Graphing and evaluation of functions are also covered. This course is not intended for transfer. This is a diploma level course. (Prerequisite: Pre-College Math or Math Level 1 Placement) (2 credits: 2 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 07/27/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Linear Equations & Inequalities
2. Absolute Values
3. Factoring
4. Rational & Radical Equations
5. Quadratic Equations
6. Systems of Equations in 3-variables
D. LEARNING OUTCOMES (General)

1. Solve inequalities
2. Solve absolute-value equations
3. Solve absolute-value inequalities
4. Solve systems of linear equations
5. Solve systems of linear inequalities
6. Factor polynomials
7. Perform operations on rational expressions
8. Simplify complex fractions
9. Solve rational equations
10. Simplify and solve equations with radicals and rational exponents
11. Solve radical equations
12. Solve quadratic equations
13. Graph functions

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

This course was previously MATH 1555.