

# 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 five 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. Any one of these five

FYEX 1000 - College Success Strategies

A score of 18 on test ACT English

A score of 21 on test ACT Reading

A score of 78 on test Accuplacer Reading Comprehension

A score of 250 on test Accuplacer NG Reading

Or

2. A score of 1 on test Accuplacer College Level Math

Or

3. A score of 86 on test Accuplacer Elementary Algebra

Or

4. A score of 230 on test Accuplacer NG Advanced Algebra Functions

Or

5. A score of 20 on test ACT Math

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 Elementary Algebra Accuplacer Score of 86 or Higher) (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.