

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: MDE 60

Credits: 3

Course Title: Intermediate Algebra

Course Description: Covers topics in algebra. Prepares students for enrollment into MTH 161 with co-requisite. Lecture 3 hours.

General Course Purpose: Prepares students for enrollment into MTH 161 with co-requisite

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Demonstrate comprehension of the major topics; and
- b. Apply learned concepts and success skills toward continued progress in MTH 161 with co-requisite.

Major Topics to Be Included:

- a. Properties of exponents
- b. Polynomials
- c. Factoring
- d. Solving quadratics and Pythagorean theorem
- e. Complex numbers
- f. Graphing (lines and quadratics)
- g. Linear equations and inequalities
- h. Linear systems
- i. Functions
- j. Rational expressions and equations
- k. Radical expressions and equations

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