

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

Course Prefix and Number: MDE 10

Credits: 3

Course Title: Introduction to Algebra

Course Description: Covers topics in arithmetic through introduction to variables and equations. Prepares students for enrollment into MDE 60, MTH 101-133, or direct enrollment into MTH 154 or MTH 155 with co-requisite. Lecture 3 hours.

General Course Purpose: Prepares students for enrollment into MDE 60, MTH 101-133, or direct enrollment into MTH 154 or MTH 155 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 MDE 60, MTH 101-133, or direct enrollment in MTH 154 or MTH 155 with co-requisite

Major Topics to Be Included:

- a. Whole numbers (addition, subtraction, multiplication, division)
- b. Fractions (addition, subtraction, multiplication, division)
- c. Decimals (addition, subtraction, multiplication, division)
- d. Scientific notation
- e. Percentages (addition, subtraction, multiplication, division)
- f. Real Number Systems
- g. Basic Algebraic Equations (One-Step/Two-Step equations)
- h. Introduction to Graphing (without graphing calculators)

Date Created/Updated (Month, Day, and Year): November 15, 2019