

**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. Total 3 hours per week. 3 credits

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

- Demonstrate comprehension of the major topics; and
- 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:

- Whole numbers (addition, subtraction, multiplication, division)
- Fractions (addition, subtraction, multiplication, division)
- Decimals (addition, subtraction, multiplication, division)
- Scientific notation
- Percentages (addition, subtraction, multiplication, division)
- Real Number Systems
- Basic Algebraic Equations (One-Step/Two-Step equations)
- Introduction to Graphing (without graphing calculators)

Effective Date/Updated: November 15, 2019