

# Virginia Western Community College

## MTE 9

### Functions, Quadratic Equations, and Parabolas

#### Prerequisites

MTE 8 or a qualifying placement score.

#### Course Description

Includes an introduction to functions in ordered pair, graph, and equation form. Also introduces quadratic functions, their properties and their graphs. Credit is not applicable toward graduation.

**Semester Credits: 1**

**Lecture Hours: 1**

#### Required Materials

##### **Textbook:**

MyLabs Plus Access Code. Pearson Publishing. ISBN: 9780558927189.

##### **Other Required Materials:**

Scientific calculator, Headphones, 3-ring binder

#### Course Outcomes

**At the completion of this course, the student should be able to:**

- Engage in a thorough introduction to quadratic functions and their properties as they complete preparation for entering STEM or business administration college-level mathematics courses.

#### Topical Description

Each unit requires the student to complete eight homework assignments, a practice test, personalized review, and a final exam. Students must complete the homework assignments and review with 90% accuracy. As a minimum pace, students must complete five assignments and/or final exams every two weeks. In order to pass the unit, students must pass the final exam with a minimum score of 75%.

<u>Homework Assignment Number</u>	<u>Sections Covered</u>
1	17.1
2	17.2 (Square Root Property)
3	17.2 (Complete the Square)
4	17.3 (Quadratic Formula)
5	17.3 (Discriminant and Applications)
6	17.4
7	17.5 (Graph)
8	17.6 (Applications)

#### Notes to Instructors

None.