

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.