

# Virginia Western Community College

## MTE 5

### Linear Equations, Inequalities and Systems of Linear Equations in Two Variables

#### Prerequisites

MTE 4 or a qualifying placement score.

#### Course Description

Includes finding the equation of a line, graphing linear equations and inequalities in two variables and solving systems of two linear equations. Emphasizes writing and graphing equations using the slope of the line and points on the line, and applications. 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:**

Basic calculator, Headphones, 3-ring binder

#### Course Outcomes

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

- Find the equation of a line, graph linear equations and inequalities in two variables and solve a system of two linear equations.

#### 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. Emphasis should be placed on writing and graphing equations using the slope of the line and points on the line, and applications. 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	11.1, 11.2
2	11.3
3	11.4, 11.5 B
4	11.6 A, 11.7
5	11.5 A, C, D, E, 11.6 B, C
6	12.1
7	12.2, 12.3
8	12.4

**Notes to Instructors**

None.