

# Cover Page

## MTE 5

### Developmental Mathematics

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Dean's Review:

Dean's Signature: \_\_\_\_\_ Date Reviewed: \_\_\_/\_\_\_/\_\_\_

VIRGINIA WESTERN COMMUNITY COLLEGE  
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# MTE 5

## Developmental Mathematics

### COURSE OUTLINE

#### Prerequisites and Course Description:

COURSE TITLE	CREDITS	COURSE DESCRIPTION
<b>MTE 5: Linear Equations, Inequalities &amp; Systems of Linear Equations in Two Variables</b>	1 credit	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 for this course can be achieved by completing the appropriate MTT course. Credit is not applicable toward graduation. Prerequisite: MTE 4 or qualifying placement score

**Semester Credits: 1 Lecture Hours: 1**

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## Course Outcomes

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

Unit	Unit Name	Unit Description
MTE 5	Linear Equations, Inequalities and Systems of Linear equations in Two Variables	The student will learn how to find the equation of a line, graph linear equations and inequalities in two variables and solve a system of two linear equations. Emphasis should be on writing and graphing equations using the slope of the line and points on the line, and applications.

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# MTE 5

Required Materials:

Headphones, 3-ring Binder

MTE 5 also requires a Basic Calculator

Textbook:

Foundations of Mathematics for Virginia, Access Code, Hawkes Learning, ISBN #:  
9781941552643

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## Topical Description:

**Each Unit requires the student to complete 8 Homework Assignments, a Practice Test, Personalized Review, and a Final Exam. A student must complete the homework assignments and review with 90% accuracy. In order to pass the unit a student must pass the final exam with a minimum score of 75%. As a minimum pace, the student must complete 5 assignments and/or Final Exams every two weeks. Below is a list of which sections in the book are covered on each homework assignment.**

MTE 5 – Linear Equations, Inequalities and Systems of Linear Equations in Two Variables (Basic Calculator)

HW 1: Sections 11.1, 11.2

HW 2: Sections 11.3

HW 3: Section 11.4, 11.5 B

HW 4: Section 11.6 A, 11.7

HW 5: Section 11.5 A, C, D, E, 11.6 B, C

HW 6: Sections 12.1

HW 7: Section 12.2, 12.3

HW 8: Section 12.4

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