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MTE 9

Developmental Mathematics

Faculty Name: Jodi Clingenpeel

Program Head: Amy Williamson

Dean's Review:

Dean's Signature: _____ Date Reviewed: ___/___/___

VIRGINIA WESTERN COMMUNITY COLLEGE
PO Box 14007
Roanoke, VA 24038
(540)-857-7273



MTE 9

Developmental Mathematics

COURSE OUTLINE

Prerequisites and Course Description:

COURSE TITLE	CREDITS	COURSE DESCRIPTION
MTE 9: Functions, Quadratic Equations and Parabolas	1 credit	Includes an introduction to functions in order pair, graph, and equation form. Also introduces quadratic functions, their properties, and their graphs. Credit for this course can be achieved by completing the appropriate MTT course. Credit is not applicable toward graduation. Prerequisite: MTE 8 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 9	Functions, Quadratic Equations and Parabolas	In this unit the student will have an introduction to functions in ordered pair, graph, and equation form. The student will 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

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Required Materials:

Headphones, 3-ring Binder
MTE 9 also requires a Scientific 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 9 – Functions, Quadratic Equations, and Parabolas (Scientific Calculator)

HW 1: Section 17.1

HW 2: Section 17.2 (Square Root Property)

HW 3: Section 17.2 (Complete the Square)

HW 4: Section 17.3 (Quadratic Formula)

HW 5: Section 17.3 (Discriminant and Applications)

HW 6: Section 17.4

HW 7: Section 17.5 (Graph)

HW 8: Section 17.5 (Applications)

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