Course Number: MATH 1050

Course Name: Elementary Algebra

Prerequisite: DEV 0115 with a grade of “C” or higher or MATH 1099 (DEV 0115 modules) or placement by COMPASS.

Description of the Course: First course of a two-semester sequence. Includes the study of the real number system including properties of real numbers, order of operations, operations on algebraic expressions, solving linear equations and inequalities in one variable, the rectangular coordinate system, graphs of linear equations and inequalities in two variables, systems of equations and inequalities in two variables, applications and modeling, properties of exponents, scientific notation, polynomial arithmetic, factoring, and solving polynomial equations. Includes applications and activities to build skills in problem solving.

Goals of the Course: To improve the student’s algebra and problem solving abilities. To prepare students (most of whom plan to take MATH 1075, Intermediate Algebra) for further study in mathematics.

Required Textbooks and Equipment:
• Do the Math Workbook
• MyMathLab electronic learning environment
• Texas Instruments’ TI-83, TI-83PLUS, TI-84, or TI-84 PLUS Graphing Calculator

Units of Instruction:
Textbook sections 1.3, 1.6 –1.8, 2.3 – 2.8, 3.1 –3.7, 4.1 – 4.6, 5.1 – 5.6, 6.1 – 6.7

Instructional Methods: Individual and group student exploration and discovery exercises, guided questioning and discussion, demonstration of multiple methods, and lecture using examples and counterexamples.