

Course Number: MATH 102

Course Name: Beginning Algebra I

Prerequisite:

DEV 031 with a grade of “C” or higher, or placement by COMPASS

Description of the Course:

This course is a remedial preparatory course designed to improve the student’s algebra and problem solving abilities. The course includes: the real number system; order of operations; simplifying expressions; solving linear equations and inequalities in one variable; applications and modeling; overview of graphing; linear equations in two variables; and relations and functions. These topics are taught using an approach that integrates algebraic, graphic and numeric methods whenever possible.

Goals of the Course:

To improve the student’s algebra and problem solving abilities. To prepare students (most of whom plan to take MATH 103, Beginning Algebra II) for further study in mathematics.

Required Textbooks and Equipment:

Elementary and Intermediate Algebra, Sullivan/Struve/Mazzarella, Prentice Hall, 2nd Edition, 2010
Texas Instruments’ TI-83 or TI-84 Graphing Calculator

Units of Instruction:

Textbook sections 1.1, 1.3, 1.6, 1.7, 1.8, 2.1-2.8, 3.1-3.6, 8.1 – 8.5

Instructional Methods:

Lecture, discussion, individual or collaborative activities, and discovery/exploration activities, all of which regularly incorporate the use of TI-Graphing Calculator as either a problem solving tool, an exploration tool, or a verification tool.