

Course Number: MATH 103

Course Name: Beginning Algebra II

Prerequisite:

MATH 102 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: functions; systems of equations in two variables; applications and modeling; properties of exponents; scientific notation; polynomial arithmetic, factoring and equation solving; rational expression arithmetic and simplification; and complex fraction simplification. 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 104, Intermediate Algebra) for further study in mathematics.

Required Textbooks and Equipment:

Intermediate Algebra, A Graphing Approach, Martin-Gay/Greene, Prentice Hall, 4th Edition, 2008
Texas Instruments’ TI-83 or TI-84 Graphing Calculator

Units of Instruction:

Textbook sections 2.2, 4.1, 4.3, 5.1–5.8, 6.1–6.4

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.