Course Number: MATH 104

Course Name: Intermediate Algebra

Prerequisite:

MATH 103 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: interval notation; absolute value, rational, radical and quadratic equations; absolute value and polynomial inequalities in one variable; linear inequalities in two variables; compound inequalities in one and two variables; operations on radical expressions and expressions containing rational exponents; complex number system introduction; and applications and modeling. These topics are taught using an approach that integrates algebraic, graphic and numeric methods wherever 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 148, MATH 116, or MATH 130) 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

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.

Units of Instruction:

Textbook sections 3.2-3.6, 6.5-6.7, 7.1-7.7, 8.1-8.7