

Course Number: MATH 1030

Course Name: Beginning Algebra II

Prerequisite:

MATH 1020 with a grade of “C” or higher *or* MATH 1099 (MATH 1020 modules) *or* placement by COMPASS

Description of the Course:

Second course of a two-semester sequence. Includes the study of 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 for further study in mathematics.

Required Textbooks and Equipment:

- Elementary and Intermediate Algebra, 2nd edition, Sullivan, Struve, Mazzearella; Prentice-Hall 2010 (CSCC custom edition ISBN # 055885382X)
- *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 3.5 – 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.