

**Course Number:** MATH 1020

**Course Name:** Beginning Algebra I

**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, and graphs of linear equations in two variables. 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, 2<sup>nd</sup> 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 1.3, 1.6 – 1.8, 2.3 – 2.8, 3.1 – 3.4

**Instructional Methods:**

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