Course Number: MAT 098
Course Title: Elementary Algebra
Credits: 3 Semester Hours
Prerequisites: None

Catalog Description: First order linear equations, algebraic techniques including manipulation of algebraic expressions, solution of linear equations and inequalities, graphing of linear equations and applications. Three credits will be earned, but they will not count towards graduation; the course does not satisfy the general education requirement in mathematics/computer science; it will be graded P/F only. Admission by testing only.

Course Outline:

I. Review of the real number system
   A. The real numbers
   B. Operations on real numbers
   C. Order of operations
   D. Exponents
   E. Scientific notation
   F. Percent

II. Linear equations and inequalities in one variable
   A. Solving linear equations and inequalities in one variable
   B. Graphing linear equations and inequalities in one variable

III. Linear equations and inequalities in two variables
   A. Graphing linear equations and inequalities in two variables
   B. Slope-intercept equation of a line
   C. Point-slope equation of a line
   D. Linear equations as functions

IV. Systems of linear equations and inequalities
   A. Solving systems by graphing
   B. Solving systems by the addition (elimination) method
   C. Solving systems by the substitution method

V. Polynomials; proportions
   A. Operations on polynomials
   B. Solving proportions