ALGEBRA 1/ALGEBRA 1 HONORS

CREDIT HOURS: 1.0  COURSE LENGTH: 2 Semesters

COURSE DESCRIPTION
The purpose of this course is to develop the algebraic concepts and processes that can be used to solve a variety of real-world and mathematical problems. Upon successful completion of this course a student will understand operations with real numbers, linear equations, inequalities, relations, and functions. Students will also be able to solve pairs of linear equations and inequalities, polynomials, algebraic fractions, and exponents and radicals.

The honors level course requires students to utilize higher order thinking skills such as analysis and synthesis, while completing more rigorous assignments. In addition, more emphasis is placed on research mastery and project based learning.

COURSE PREREQUISITES
Pre-Algebra or Middle School Math Courses

REQUIRED TEXTBOOK (S) and/or MATERIALS
Calculator

TOPIC OUTLINE

Semester I:
1. Numbers and Expressions
2. Solving Equations
3. Functions and Relations
4. Linear Equations
5. Polynomials and Quadratics
Semester II:

1. Inequalities and Systems
2. Exponential and Radical Functions
3. Rational Expressions and Equations
4. Probability, Statistics, and Discrete Math