Applied Algebra 1 2013-2014

Course Description:

APPLIED ALGEBRA I is a course designed to meet the students' needs in a competitive and changing technological world. APPLIED ALGEBRA I emphasize the connection between theory and the practical and technical skills necessary to be successful in life. The delivery of concepts is done in a flexible, application-based mode that provides for hands on understanding of the relationships of algebraic concepts through real life situations. Emphasis is placed on the properties of the real number system with development of logical reasoning and problem solving abilities for practical and technical applications.

Course Content:

- Patterns and Multiple Representations
- Proportional Reasoning, Percents, and Direct Variation
- Solving Linear Equations
- Linear Functions and Inequalities
- Writing and Graphing Linear Equations
- Lines of Best Fit
- Systems of Equations and Inequalities
- Quadratic Functions
- Properties of Exponents
- Polynomial Functions Rational Expressions
- Probability
- Statistical Analysis
- Quadratic and Exponential Functions and Logic

Required Textbooks and/or Other Reading/Research Materials

Algebra I content is delivered in a blended course format, with a combination of collaborative, student-centered textbook lessons and adaptive Cognitive Tutor software lessons.

Carnegie Learning Algebra 1 by Carnegie Learning. Carnegie Learning, 2012.

Course Requirements:

Each student is required to complete all tests, projects, and assignments, as complete units from the Cognitive Tutor Program. Failure to do so will affect the student's overall grade

Grade Components/Assessments:

Grades will be based on a point system that will be converted to overall percentages.

The following methods will be used, for the year, to assess and evaluate student performance.

Tests: 50 – 60% Quizzes: 20 – 25% Homework: 20 - 25%

Alterative Assessment: 5 - 10%

Additional alternative assessments are often included in one of the other three categories above

Each marking period is worth 20% of a student's overall grade. The midterm and final exam are each worth 10% of a student's overall average:

 Quarter 1
 20%

 Quarter 2
 20%

 Midterm
 10%

 Quarter 3
 20%

 Quarter 4
 20%

 Final
 10%

Required Summer Reading/Assignments:

There is no required summer assignments