COURSE TITLE: Algebra 2H

Level of Difficulty	Estimated Homework	Prerequisites
Difficult	60-90 minutes	**District:** B or higher in Geometry H A in Geometry CP **Department Suggestion:** *B or higher in both semesters of Geometry H *Grade of "B" test average or higher in both semesters of Geometry H *Students should have a very strong foundation in Algebra (A in both semesters of Algebra 1H) and strong study habits.

Course Description:

Algebra 2 H (Honors) will strengthen fundamental Algebra skills and build on them so as to develop a solid basis of algebraic concepts to prepare the students for the rigorous and intensive expectation and knowledge of AP Precalculus. Although the first half of the course will cover many of the topics found in Algebra 1 H, the level of difficulty will be at a much higher level. Topics covered are: polynomials, rational, exponential, logarithmic, and trigonometric functions, probability/statistics, trigonometry, conics, and sequences and series. Students should have solid mastery of the following topics prior to taking Algebra 2 H:

1. Factoring
2. Solving linear and Absolute value equations and inequalities.
3. Solving quadratic equations.
4. Simplifying and performing operations on rational and radical expressions
5. Graphing linear, absolute value, and quadratic functions
6. Setting up and solving word problems
7. Using exponent properties to simplify expressions
8. Writing various forms of linear and quadratic equations

Grading:
Tests/Quizzes/Final: 85%
Homework/Classwork: 15%

Syllabus:
Refer to individual teacher websites

Supplemental Information:
10 credits Meets high school graduation requirement for mathematics
Meets UC/CSU subject area "c" requirement
Weighted grade