

COURSE TITLE: Algebra 2 H

Level of Difficulty	Estimated Homework	Prerequisites
Very Difficult	60-90 minutes	District: B or better in Geometry H A in Geometry CP Department Suggestion: *B or better in both semesters of Geometry H *Grade of "B" test average or better in both semesters of Geometry H *Students should have very strong foundation in Algebra (A in both semesters of Algebra 1H from middle school) 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 Math Analysis H (Honors). 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, matrices, trigonometry, 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 quadratic equations and inequalities
3. Simplifying and performing operations on rational and radical expressions
4. Graphing linear and quadratic functions
5. Setting up and solving word problems
6. Using exponent properties to simplify expressions
7. 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