COURSE TITLE: Algebra 2 CP

Level of Difficulty	Estimated Homework	Prerequisites
Moderate	30-60 minutes	**District:** C or better in Geometry **Department Suggestion:** Same

Course Description:

This course complements and expands on the mathematical content and concepts introduced in Algebra 1 and Geometry.   Algebra 2 CP is a survey of math topics including the study of the following kinds of functions: linear, quadratic, polynomial, rational, radical, exponential, logarithmic, trigonometric and then introductions to sequences and series, probability and statistics.   For each type of function, students will learn to simplify expressions, solve equations and graph functions.   Algebra 2 is designed for students that intend to go on to take Math Analysis and possibly Calculus.   Colleges that are competitive prefer to see that students have taken classes like Math Analysis before graduating high school. Students will be introduced to many real world applications of the topics mentioned above, but students will also engage in abstract thinking that is required to be successful in Math Analysis and Calculus.   Abstract knowledge of math concepts is important for students that go on to a career in math or science. This topics covered in this course are almost perfectly matched with the SAT and ACT tests. Because of this, it is strongly recommended that students obtain a graphing calculator (such as the TI-83 or TI-84) to use during the course.   This sort of calculator provides an advantage to students who are taking the SAT or ACT, and learning to use the calculator during the course of Algebra 2 will be beneficial.

Grading:

Students will be graded primarily on math test scores including chapter tests and a midterm or final.   A smaller part of student grades will depend on the work ethic demonstrated by doing homework and classwork.   In general, tests make up 85% of a student's grade and homework/classwork make up 15% of a student's grade.

Syllabus:

The course consists of approximately 10 units of instruction including: linear functions, quadratic functions, polynomial functions, rational functions, radical functions, exponential and logarithmic functions, sequences and series, trigonometry, probability and statistics. There will be at least one test per unit with some quizzes and a midterm or final exam.   There will be approximately one hour of homework almost every night.

Supplemental Information:

UC Subject Area "c"