COURSE TITLE: Math Analysis Honors

Level of Difficulty	Estimated Homework	Prerequisites
Very Difficult	60-90 minutes	**District:** B or better in Algebra 2 H A in Algebra 2 CP **Department Suggestion:** *B or better in both semesters of Algebra 2 H *Grade of "B" test average or better in both semesters of Algebra 2 H *Students entering Math Analysis Honors should have very strong foundation in algebra skills and study habits. * Students entering from college prep (non-honors) should consult with their Algebra 2 teacher for recommendation

Course Description:

Math Analysis Honors will strengthen students Algebra skills as well as teach the beginning concepts of Calculus. Although this course will cover many of the similar topics covered in Algebra 2 Honors, the level of difficulty will be at a much higher level. Topics covered are: polynomials, rational, exponential, logarithmic, and trigonometric functions, probability, matricies, trigonometry, analytic geometry, polar, vectors, sequences and series, and introduction to calculus, including topics such as limits, derivatives and integrals. Students should have solid mastery of the following topics prior to taking Honors Math Analysis:

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

Mathematics doesn't consist simply of memorization. It is a problem-solving art, not just a collection of facts. To be successful in this course, students must learn to be an active problem solvers.

Grading:

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

Syllabus:

Check individual teacher website

Supplemental Information:

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