**ALGEBRA 2 HONORS SYLLABUS**

* Solve equations, inequalities, & absolute value equations & inequalities
* Relations & functions
* Linear Equations
* Absolute Value Functions
* Piecewise Functions
* Translations & Transformations/Families of Functions
* Solve Systems of Equations/inequalities in 2 and 3 variables
* Factoring
* Parabolas
* Complex Numbers
* Completing the Square
* Polynomial Functions
* Dividing Polynomials
* The Fundamental Theorem of Algebra
* The Binomial Theorem
* Permutations & Combinations
* Roots & Radicals
* Rational Exponents
* Inverse Relations
* Domain & Range of Functions
* Radical Functions
* Exponential Functions
* Logarithms
* Direct & Inverse Variation
* Rational Functions
* Probability of Multiple Events
* Sequences & Series