



## Course Description: Algebra II/ Trig Honors

This is a two-semester college preparatory course in Algebra II. The course covers the development of mathematical principles of Algebra II and their applications, in preparation for PreCalculus Honors.

Topics include:

1. Equations and inequalities
2. Linear equations and functions
3. Systems of linear equations and inequalities
4. Matrices and determinants
5. Quadratic functions
6. Polynomial and polynomial functions
7. Powers, roots and radicals
8. Exponential and logarithmic functions
9. Rational equations and functions
10. Conic sections
11. Sequences and series
12. Probability and statistics
13. Trigonometric ratios and functions
14. Analytic trigonometry & identities
15. Law of sines and law of cosines & vectors

Textbook: McDougal Little Algebra 2. 2004

Prerequisites: Algebra I Honors, Geometry Honors

*High Bluff Academy is accredited by the Western Association of Schools and Colleges (WASC). The above course is approved by the University of California system (A-G) and the National Collegiate Athletic Association (NCAA).*