

**COURSE TITLE:** Math Analysis CP

Level of Difficulty	Estimated Homework	Prerequisites
Difficult	30-60 minutes	<b>District:</b> B or better in Algebra 2 CP OR B or better in FST <b>Department Suggestion:</b> 10 <sup>th</sup> grade students who completed Algebra 2 CP may want to consider taking this course in 11 <sup>th</sup> grade or take FST first.

**Course Description:**

Math Analysis CP expands on concepts covered in Algebra 2 CP, covers trigonometry in depth, and introduces some fundamental concepts of calculus. Topics include matrices, transformation of graphs (linear, quadratic, cubic, rational, radical, logarithmic, trigonometric and other functions), graphing and solving polynomial equations, using basic trigonometric ratios and Laws of Sines and Cosines, verifying trigonometric identities, solve trigonometric equations, vectors, parametric equations, polar coordinates, conics, sequences and series, limits, probability, and intro to calculus.

Students are expected have thorough mastery of factoring quadratics, simplifying and performing operations on rational and radical expressions. Students will be performing these tasks as a step in a complex problem. In addition to mastery of Algebra 2 concepts, students are also expected to develop good study habits, be tenacious, and be an active learner to succeed in this course.

**Grading:**

Grades will be determined mostly by unit assessments and subterm finals.

**Syllabus:**

Check individual teacher website

**Supplemental Information:**

UC subject area "c"

While receiving an A in both subterms in this course meets the district prerequisite for Calculus IB, those who aspire to take Calculus IB are HIGHLY encouraged to take Math Analysis H.