

**Honors Algebra I (313)****Grade 8 & 9****Honors**

**Prerequisite:** Dept. approval through the entrance exam, 8th grade marks and 8th grade teacher's recommendation.

This course is designed for the student who has facility for mathematics. As the student pursues this course, they will work on the following units: real number system, properties and operations, equations and inequalities, polynomials, functions and variations, quadratic equations and problem solving.

**Algebra (312)****Grade 8 & 9****CPI**

This course guides the student in discovering mathematical principles and furnishes them with exercise material to strengthen their comprehension. The following units are covered: basic terms, operations with real numbers, solving equations and inequalities, polynomials, factoring, algebraic fractions, simultaneous equations and problem solving.

**Algebra I (311)****Grade 9****CPII**

The purpose of this course is to provide instruction in the fundamental skills of Arithmetic and Algebra. Topics such as concepts of numerals, the language and symbols of math, number functions and number pairs will be handled at a rate to ensure maximum comprehension. Also included in this course will be some units on metrics, fractions, decimals and percentages.

**Honors Geometry (323)****Grades 9 & 10****Honors**

**Prerequisite:** 80 in Honors Algebra I or a 90 in Standard Algebra I and department approval.

This course is designed for the student who has shown a high ability level in math and may wish to pursue math or science on the college level. It contains a sophisticated approach to the mathematical structure of geometry with an emphasis placed on deductive reasoning.

**Geometry CPI (322)****Grades 9 & 10****CPI**

**Prerequisite:** 70 in Algebra I

This course is designed to help the student to understand the nature of a mathematical system and to appreciate the basic structure of Geometry. Time will be spent on both inductive and deductive reasoning. Efforts to show how Algebra and Geometry complement each other will be made.

**Geometry (321)****Grade 10****CPII**

**Prerequisite:** Passing grade in Algebra I

This course is designed primarily for those students who have studied Algebra I CPII. The topics will be similar to those covered in Geometry 322 but will be paced more slowly according to the needs and abilities of the student.

**Honors Algebra II (333)****Grades 10 & 11****Honors**

**Prerequisite:** 80 in Honors Geometry or a 90 in Standard Geometry & departmental approval.

This course is designed for high ability math students. The topics will include a comprehensive review of the basic concepts of Algebra, an introduction to complex numbers, a study of functions and Trigonometry.



**Honors Pre-calculus (347)****Grade 12****Honors****Prerequisite: 85 in Honors Algebra II & department approval**

This is a course for college bound students who will profit from an understanding of the circular functions. The study will include evaluating the functions, graphing, radian and degree measure, identities, & trigonometric equations. Probability and Statistics will be discussed in detail, finding mean, median, mode, standard deviation and percent under the curve.

**Pre-calculus (341)****Grade 12****CPI****Prerequisite: 70 in Honors Algebra II & department approval**

This is a course for college bound students who will profit from an understanding of the circular functions. The study will include evaluating the functions, graphing, radian and degree measure, identities, & trigonometric equations. Probability and Statistics will be discussed in detail, finding mean, median, mode, standard deviation and percent under the curve.