

# Mathematics (Requirement: 3 credits)

EHS requires 3 years of Math for class 2010 and beyond.

The Math Department's goals are to strengthen individual math student abilities to meet the expectations of the State of Washington and to prepare students to effectively use math as a tool in their daily like experiences following high school.

Class	Credit	Graduation Requirement	Grades
<b>Math Sequence for College Preparation</b>			
Algebra I	1.00	Math	9-12th
Geometry/Geometry Honors	1.00	Math	9-12th
Algebra II/Algebra II Honors	1.00	Math	10-12th
Pre-Calculus	1.00	Math	11-12th
Calculus/ ***AP Calculus	1.00	Math	11-12th
<b>Math Sequence for Applied Context</b>			
Integrated Math I	1.00	Math	9-12th
Collection of Evidence Math *	1.00	Math	11-12th
Tiered Math *	1.00	Math	9-12th

\*Collection of Evidence Math and Tiered Math do NOT meet college expectations.

\*\*\*Advanced Placement Calculus may receive college credit after successfully completing the Advanced



# Mathematics Credit

## Algebra I

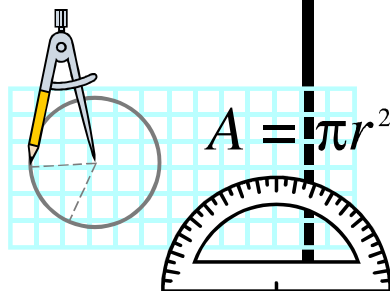
**Credit Value:** 1.00    **Duration:** One year  
**Available for Grades:** 9th  
**Meets Graduation Requirement for:** Mathematics  
**Prerequisite:** Qualifying score on placement exam

**Description:** Discovery and development of algebraic concepts that include various types of expressions, equations, inequalities, functions and systems of equations. Concepts are extended to both theory and application.

## Algebra II

**Credit Value:** 1.00    **Duration:** One Year  
**Available for Grades:** 11th and 12th  
**Prerequisite:** A grade of C- or better in Algebra 1B and Geometry.  
**Meets Graduation Requirement for:** Mathematics

**Description:** Continued development of algebraic concepts that include matrices, conics, functions, sequences, logarithms and complex numbers. Concepts are extended to both theory and application.



## Algebra II Honors

**Credit Value:** 1.00  
**Duration:** One Year  
**Available for Grades:** 11th and 12th  
**Prerequisite:** An A in Algebra 1 and Geometry  
**Meets Graduation Requirement for:** Mathematics

**Description:** Algebra 2 Honors will be taught at an accelerated pace and will contain a greater emphasis on real world applications of Algebra through solving word problems.

## Calculus

**Credit Value:** 1.00    **Duration:** One Year  
**Available for Grades:** 12  
**Prerequisite:** A grade of C- or better in Pre-Calculus  
**Meets Graduation Requirement for:** Mathematics

**Description:** Calculus is the mathematics of change and motion. This course covers both major areas of calculus, differential and integral. The course presents a comprehensive treatment of derivatives of functions of one or two variables, development of definitions, formulas and applications and integration of functions of one variable. The goal of this course to prepare students for the AP Calculus AB exam, with the opportunity of earning college credit. This class is taught as a college level course.

## Collection of Evidence Math

**Credit Value:** 1.00  
**Duration:** One Year  
**Available for Grades:** 11-12th  
**Prerequisite:**  
**Meets Graduation Requirement for:** Math

**Description:** A course that includes a combination of mathematics in an applied context. Students will collect evidence of learning to satisfy their graduation requirement for Math proficiency.

## Geometry

**Credit Value:** 1.00    **Duration:** One Year  
**Available for Grades:** 10th  
**Prerequisite:** A grade of C- or better in Algebra I  
**Meets Graduation Requirement for:** Mathematics

**Description:** Geometry is an algebra oriented subject dealing with points, lines, planes, circles, angles, polygons, and polyhedrons. Basic forms of reasoning (inductive and deductive) and logic, coordinate Geometry and figure transformations will be studied during the year with emphasis on how Geometry is used in the every day world.

# Mathematics Credit

## Geometry Honors

**Credit Value:** 1.00

**Duration:** One Year

**Available for Grades:** 10th

**Prerequisite:**

A grade of C- or better in Algebra 1 B

**Meets Graduation**

**Requirement for:**

Mathematics

**Description:** Geometry Honors will be conducted at an accelerated pace and contain a greater emphasis on proofs.

## Integrated Math I

**Credit Value:** 1.00

**Duration:** One Year

**Available for Grades:** 9th

**Meets Graduation**

**Requirement for:** Math

**Description:** This course will concentrate on the primary elements of geometry such as polygons, angles and measurement while incorporating focus areas of probability, algebra, problem solving, and mathematical connections.

## Pre-Calculus

**Credit Value:** 1.00

**Duration:** One Year

**Available for Grades:** 11th & 12th

**Meets Graduation Requirement for:**

Mathematics

**Description:** This an advanced mathematical course that explores and studies the relationships of various types of functions and the nature of their graphs. Topics include systems of equations, polynomials, quadratics, trigonometry, vectors, polar coordinates and exponential functions.

## Tiered Levels of Math

**Credit Value:** .50 per semester

**Duration:** One semester/One year

**Available for Grades:** 9, 10, 11, 12

**Prerequisite:** Special Education eligibility, permission from instructor

**Meets Graduation Requirement**

**For:** Math

**Description:** Consists of:  
Lifeskills Math  
Exploratory Math  
Basic Math  
Transition

Includes specially designed instruction in skills and concepts necessary for progression through the Math sequence.

