

Math Department

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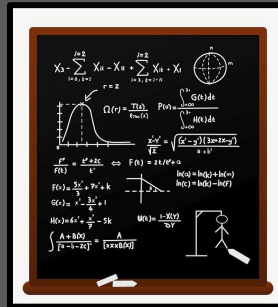
Course Offerings

We offer 26 different Math classes

Algebra 1A	Geometry	Algebra 2	PreCalculus Honors
Algebra 1B	Geometry Honors	Algebra 2 Honors	Calculus
Algebra 1	Geometry +	Intermediate Algebra	AP Calculus AB
Algebra 1+	Introduction to Geometry	Math for Trades	AP Calculus BC
Foundations of Calculus 1	Math Applications	PreCalculus	AP Statistics
Foundations of Calculus 2	Algebra 2 with Statistics	Enriched PreCalculus	3 Computer Science Classes

Graduation Requirements

- All students must successfully complete 3 years of high school math
- All students must pass 1 NYS math regents.
- There are 3 exams offered by the state:
 - Algebra 1
 - Geometry
 - Algebra 2



Most Common Pathway

Grade 9

Grade 10

Grade 11

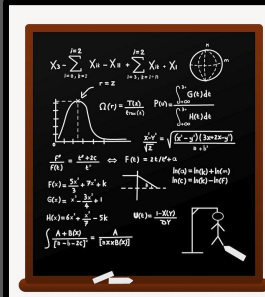
Grade 12

Algebra 1

Geometry

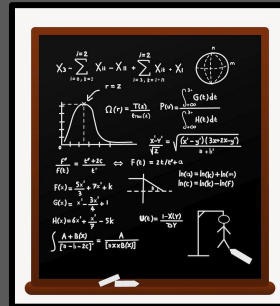
Algebra 2

Precalculus



AP Courses and DCC Courses

AP Courses	DCC Courses
AP Calculus BC	Enriched Precalculus
AP Calculus AB	Java
AP Statistics	Computer Programming



Possible Pathways for AP Calculus BC (Highest Level Math Class)

Grade 8

Grade 9

Grade 10

Grade 11

Grade 12

Algebra 1

Geometry
Honors

Algebra 2
Honors

Precalc
Honors

AP Calculus
BC

Possible Pathways for AP Calculus AB

Grade 8

Grade 9

Grade 10

Grade 11

Grade 12

Algebra 1

Geometry

Algebra 2

Enriched
Precalc

AP Calculus
AB

Note: Any level of Geometry and Algebra 2

8th grade
math

Algebra 1

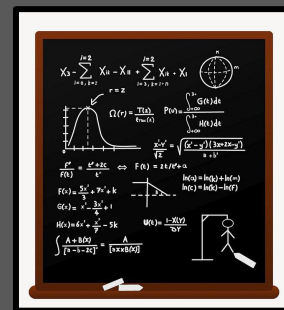
Foundations
of Calculus 1

Foundations
of Calculus 2

AP Calculus
AB

AP Statistics

- Typically students take this course after precalculus.
- Can take after Algebra 2 as long as they are enrolled in a precalculus class at the same time.



Computer Science Classes

INTRODUCTORY COMPUTER PROGRAMMING - ½ year

INTERMEDIATE COMPUTER PROGRAMMING WITH JAVA - DCC course CPS 141 - ½ year (4 credits)

COMPUTER SCIENCE - Dutchess Community College CPS 142 - full year (3 credits)

AHS Computer Science alumni have gone on to study computer science, software engineering, software development, computer security and computer information systems at RPI, RIT, Northeastern, Cornell, University of Illinois, Marist, SUNY Binghamton, SUNY Albany, SUNY Stonybrook, University of Maryland, U Mass and DCC among others.

AHS computer science alumni have gone on to work at Facebook, Google, NASA, Amazon, Trip Advisor, Microsoft, Apple, Oracle, IBM, Boeing, Wayfair, US Dept of Treasury, Homeland Security, GE, Aetna and numerous other smaller corporations on both the east and west coasts

Math Team

- Competes against other local schools
- 4 county system - Sectional tournament is a 4 county system
- Every year we have students qualify for the state competition in April
- Material questioned is through Algebra 2

