

Welcome!

MVHS Mathematics
Course selection information

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Lead

Selecting Your Math Class



- Select the math class that is right for you!
- Grade Expectations
- Good rule of thumb - match rigor with interest
- Informed Decision Making - seek information from your current math teacher, guidance staff, parents, etc.
- Remember to leave time for other classes and extracurriculars.

Requirements

FUHSD Graduation

- D grade or higher
- 2 years (through “geometry”)
- Algebra:
 - Algebra 1
 - Algebra 2 or Alg 2/Trig
 - Any of the AP math classes
- Geometry:
 - Geometry
 - Applications of Advanced Mathematics (AAM), Precalc or Precalc Honors

CSU / UC / 4 yr university

- C grade or higher
- 3 years recommended (through Alg 2)
- UCs and other more selective universities recommend 4 years

Success in all classes requires:

- Asking for Help
- Self Management
- Organization
- Note Taking



MVHS Math Pathways

AP Statistics*

AP Calculus AB

AP Calculus BC

**Applications of
Advanced Math**

Pre Calculus

**Pre Calculus
Honors**

***AP Statistics
may be taken
upon successful
completion of
any upper level
math class**

Algebra 2

**Algebra 2 /
Trigonometry**

Geometry

Algebra 1

Algebra 2 vs 2/Trig

Successful completion of Alg 2 prepares students for AAM or PC

Successful completion of Alg 2/Trig prepares students for PCH

Differences between Alg 2 & Alg 2/Trig:

- Pace
- Time commitment
- More self-reliance

Alg 2 is a good option for students looking for additional support or students who do not have time in their schedule to support the work load.

Applications of Advanced Mathematics (AAM)

The background features a large, semi-transparent green pie chart on the right side, with several smaller, semi-transparent pie charts scattered around it. At the bottom right, there is a bar chart with several vertical bars of varying heights, also semi-transparent.

- Students who may not have *loved* math at this point
- Students who have *struggled in math* but know they need more math **or more time** processing concepts and skills
- Students who might want to study something besides math or science in the future
- Anyone that would like to have an intro to statistics
- Anyone interested in real life situations and relevancy

Precalculus vs Precalculus Honors

Successful completion of PC prepares students for Calc **AB** (or AP Stats)

Successful completion of PCH prepares students for Calc **BC** (or AP Stats)

Differences between PC & PCH:

- Pace
- Time commitment
- More self-reliance

PC is a good option for students looking for additional support or students who do not have time in their schedule to support the work load.

AP Calc AB vs AP Calc BC

AB: Chapters 1 - 7 in one year

BC: Chapters 1 - 10 in one year

- BC covers more material in the same time, it goes **faster**
- The extra BC material requires a good grasp of parametric equations, polar equations, and sequences & series.
- To be successful in the BC course, you will need a good grasp of the material in Precalculus Honors.
- AB is appropriate if you have a good grasp of the Precalculus material or wish for a **slower paced course**.
- For both AB and BC (and unlike earlier math classes), there is virtually no repeat material from prior years, this translates to little or no review of the prerequisite topics.

Electives

**AP Computer Science A OR AP Computer Science Principles
Students cannot take both!**

Java is a year long course and more rigorous than what your student may have encountered during a summer program.

AP Computer Science A

- Covers the foundations of object oriented programming with Java as the base language
- Advisory: completion of **Java & Alg2 / 2/Trig** are recommended

AP Computer Science Principles

- Exposure to ~12 languages
- Design thinking
- Formal logic
- Semantics
- Policy regarding technology



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