

# Welcome!

MVHS Mathematics  
Course selection night:  
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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.

# 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 stylized bar chart with several vertical bars of varying heights, also in a semi-transparent green color.

- 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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