#### Welcome!

### MVHS Mathematics Course selection information

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## **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

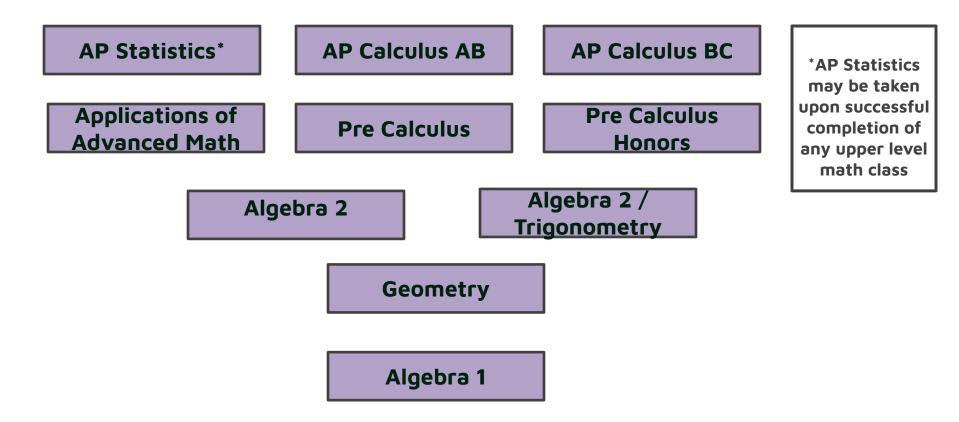
- C grade or higher
- 3 years recommended (through Alg 2)
- UCs and other more selective universities recommend 4 years

### Success in all classes requires:

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



#### **MVHS Math Pathways**



# 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)

- 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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