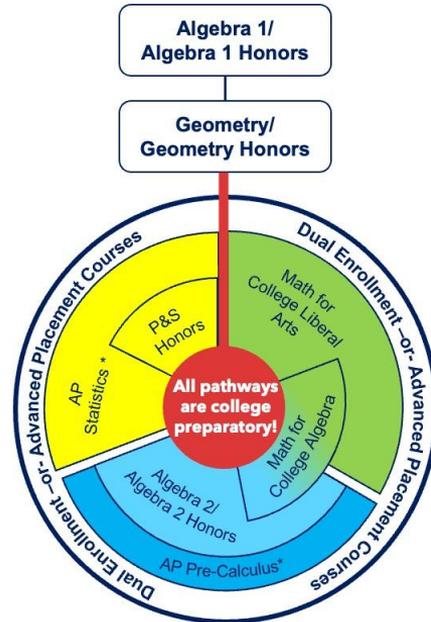




# **Math Course Selection Student Profile**

MHS 2024-25

# High School Math Pathways 2024-2025



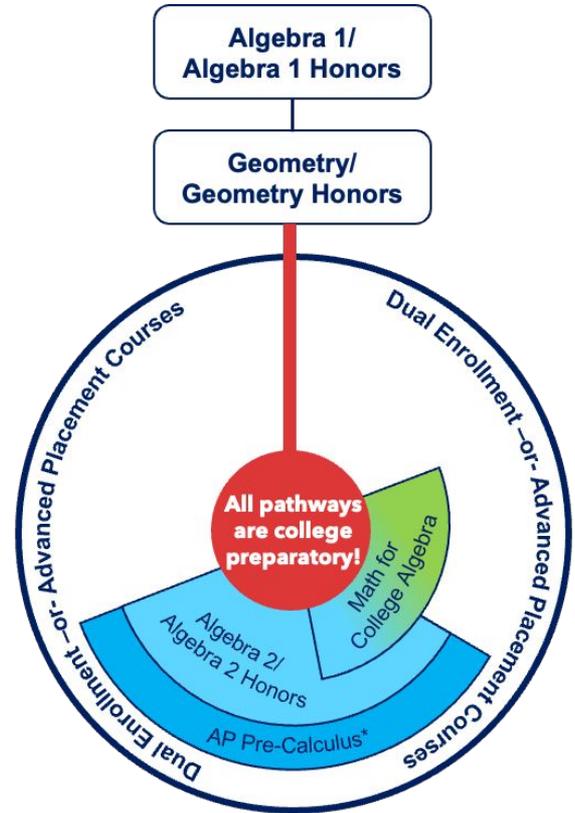
## Potential Careers

<u>Statistics Pathway</u>	
Social Work	Industrial Technology
HR Manager	GIS
Medical Technician	Merchandising/Marketing Management
Nurse	Zoologist/Veterinarian
Political Scientist	Data Scientist
Analyst	
<u>Quantitative Reasoning Pathway</u>	
Animator/Illustrator	Automotive Technology
Journalism	Design
Information Science	Emergency Planning
Elementary Education	Hospitality Management
Communication	History
Culinary Arts	Web Developer
<u>Algebra/STEM Pathway</u>	
Architecture	Computer Science
Astronomy	Economics
Environmental Science	Engineering
Biology	Mathematics
Business	Physics
Chemistry	Law

\*Algebra 2 Equivalent for Scholar Diploma Designation

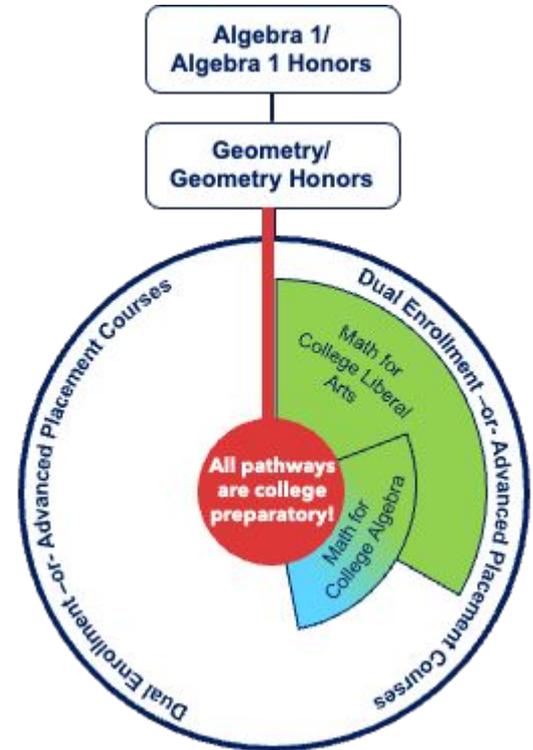
# Algebra/STEM Pathway

- For students entering fields that need advanced Algebra and/or Calculus or need to be Calculus ready.
- Example Progression for this Pathway:
  - Algebra 1 Honors
  - Geometry Honors
  - Algebra 2 Honors (Math for College Algebra for students who aren't ready for Algebra 2 but really want to stay in this pathway)
  - AP Precalculus
  - AP Calculus AB/BC (AB is not a pre-req for BC)



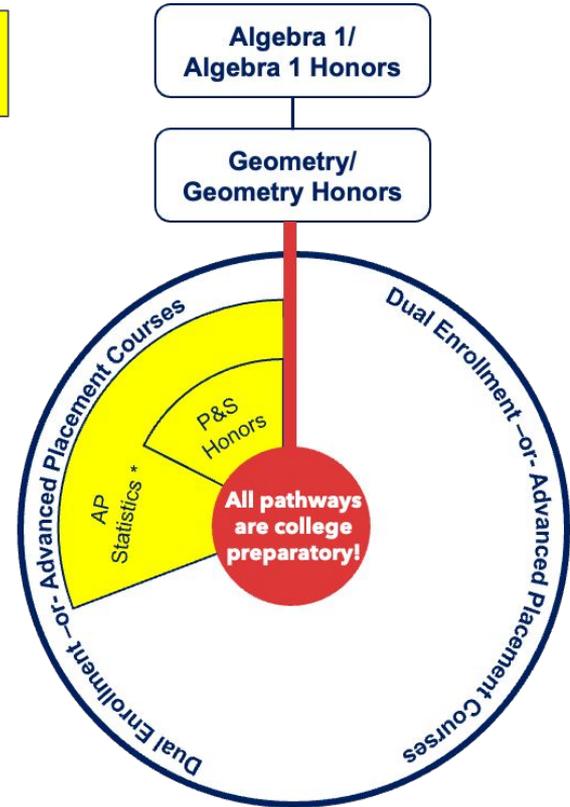
# Quantitative Reasoning Pathway

- For students who do not need statistics or STEM pathways. Mostly for fields that require no post-secondary, ELA based careers, or careers requiring certificates.
- Example Progression for this Pathway:
  - Algebra 1/Honors
  - Geometry/Honors
  - MCA/MCLA
  - MCA/MCLA



# Statistics Pathway

- For students entering a variety of career fields that deal with data, analysis, or other “soft” sciences.
- Example Progression for this Pathway:
  - Algebra 1/Honors
  - Geometry/Honors
  - AP Statistics (Probability and Statistics Honors is available for students who are not ready for AP Statistics. It is not a pre-req for AP.)
  - DE/MCLA/Algebra 2/MCA



# Algebra 1

## Student Academic Behavior Profile:

Angela Algebra usually earned a 2 or 3 on the PM3 Grade 8 FAST.

Angela's effort and performance can be inconsistent, but usually gets the job done in the end.

Angela will sometimes study or do homework outside of school.

### Pathway

Required

### Pre-Requisite Courses

M/J Pre-Algebra

# Algebra 1 A/B

## Student Academic Behavior Profile:

Albert Algebra 1A/B usually earned a 1 or 2 on the PM3 Grade 8 FAST.

Sometimes, Albert's lack of effort hurts performance. Sometimes Albert works hard, but has lagging skills and gaps from prior grade.

Angela rarely studies or does homework outside of school.

## Pathway

Required

## Pre-Requisite Courses

M/J Pre-Algebra

# Geometry

## Student Academic Behavior Profile:

George Geometry usually earned a 1, 2 or 3 on the Algebra 1 BEST EOC

George's effort and performance can be inconsistent, but usually gets the job done in the end.

George will sometimes study or do homework outside of school.

## Pathway

Required

## Pre-Requisite Courses

Algebra 1, Algebra 1A/B, Algebra 1 H

# Geometry Honors

## Student Academic Behavior Profile:

Genavieve Geometry H usually earned a 3, 4 or 5 on the Algebra 1 BEST EOC.

Genavieve's effort and performance are consistent and strong. Genavieve has good academic practices like notetaking and problem solving.

Genavieve will almost always study or do homework outside of school.

### Pathway

Required

### Pre-Requisite Courses

Algebra 1H

# Algebra 2

## Student Academic Behavior Profile:

Alexis Algebra 2 usually earned a 2, 3 or 4 on the Algebra 1 and Geometry BEST EOC.

Alexis' effort and performance are consistent within the classroom. Given a task, Alexis will accurately follow instruction.

Alexis will sometimes study or do homework outside of school.

### Pathway

Algebra/STEM

### Pre-Requisite Courses

Required: Algebra 1, Geometry

Recommended: MCA

# Algebra 2 Honors

## Student Academic Behavior Profile:

Alexander Algebra 2 H usually earned a 3, 4 or 5 on the Algebra 1 and Geometry BEST EOC.

Alexander's effort and performance are consistent with good academic practices like notetaking and problem solving. Alexander should be a self starter and work well within a group.

Alexander will almost always study or do homework outside of school.

## Pathway

Algebra/STEM

## Pre-Requisite Courses

Required: Algebra 1, Geometry

Recommended: Algebra 1H, Geometry H

# Mathematics for College Algebra (MCA)

## Student Academic Behavior Profile:

Matthew MCA usually earned a 2, 3 or 4 on the Algebra 1 and Geometry BEST EOC but just isn't quite ready for Algebra 2.

Matthew has learned the value of good academic practices like notetaking and problem solving. Although Matthew doesn't get everything right the first time, he seeks help independently. Matthew will sometimes study or do homework outside of school.

Matthew may be interested in a Quantitative Reasoning career, like design, communications, or hospitality.

## Pathway

½ Quantitative Reasoning, ½ Algebra/STEM

## Pre-Requisite Courses

Algebra 1, Geometry

# Mathematics for College Liberal Arts (MCLA)

## Student Academic Behavior Profile:

Mikayla MCLA usually earned a 1, 2, or 3 on the Algebra 1 and Geometry BEST EOC. Mikayla is looking for a 4th math credit for graduation.

Mikayla's effort and performance can be inconsistent, but usually gets the job done in the end. Mikayla usually requires extra motivation to complete tasks and will need remediation on some concepts.

Mikayla will sometimes study or do homework outside of school.

## Pathway

½ Quantitative Reasoning, ½ Algebra/STEM

## Pre-Requisite Courses

Algebra 1, Geometry

# Statistics with Probability

## Student Academic Behavior Profile:

Stephanie Statistics usually earned a 2, 3 or 4 on the Algebra 1 and Geometry BEST EOC.

Stephanie's effort and performance are consistent with good academic practices like notetaking and problem solving. Stephanie should be a self starter and work well within a group. To be successful, Stephanie does not need to be algebraically strong, but she does need to be a good reader and savvy at interpreting data.

Stephanie may be interested in a Statistics career, like nursing, veterinarian, marketing or management.

## Pathway

Statistics

## Pre-Requisite Courses

Algebra 1, Geometry

# AP Pre-Calculus

Student Academic Behavior Profile:

Pathway

Algebra/Stem

Pre-Requisite Courses

Algebra 1, Geometry, Algebra 2

# AP Calculus AB

Student Academic Behavior Profile:

Pathway

Pre-Requisite Courses

# AP Statistics

Student Academic Behavior Profile:

Pathway

Statistics

Pre-Requisite Courses

Algebra 1, Geometry