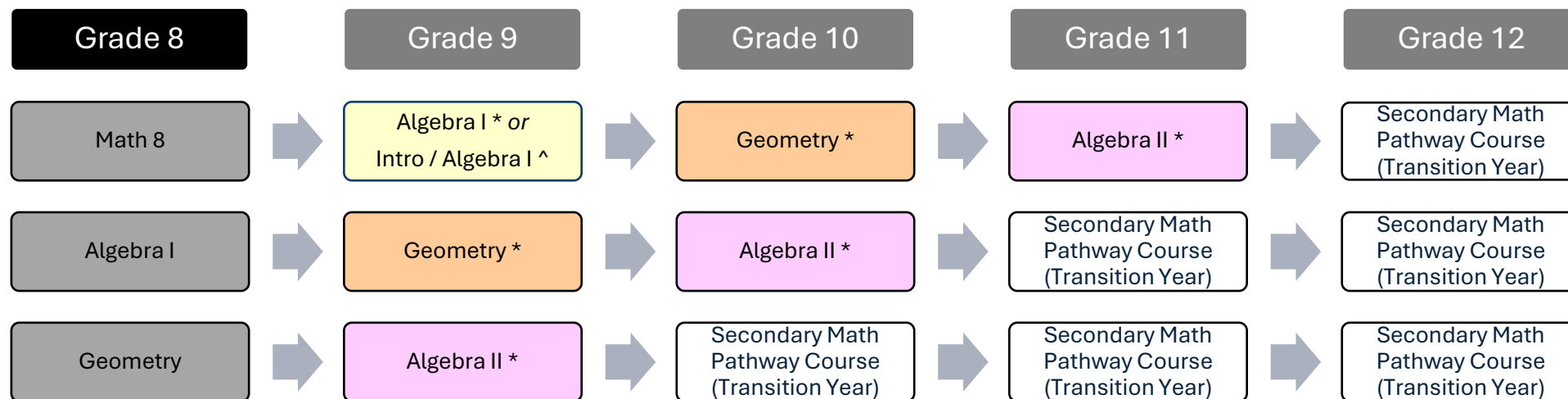


# Harford County Public Schools Mathematics Program

This chart illustrates the possible courses sequences for HCPS students entering or currently enrolled in High School during the 2026 – 2027 school year; the course sequences are subject to change based on MSDE requirements and future curriculum adoptions.



## Secondary Math Pathway Course List (Transition Year) Key:

Students select courses that align with their post-secondary goals. Additional courses will be added for the 2027 – 2028 school year in alignment with MSDE's Secondary Math Pathway Frameworks. Guidance is provided on page 2 for selected courses after Algebra II.

- AP Precalculus
- AP Calculus AB #
- AP Calculus BC #
- Statistics
- AP Statistics
- AP Computer Science A ~
- Pre-College Mathematics ~
- Consumer Mathematics ~

^	Course meets daily.
*	Course may include an option to pair with a seminar course. Seminar courses earn one elective credit and are available on a school-by-school basis at high schools only.
#	Course requires prerequisite courses beyond Algebra 2. Refer to the <a href="#">Student Education Planning Guide</a> for prerequisite requirements for these courses.
~	<ul style="list-style-type: none"> <li>AP Computer Science A is not recognized by the University System of Maryland as a mathematics course required for admission when taken during <a href="#">senior year</a>.</li> <li><a href="#">University System of Maryland Requirements</a>: 4 years of high school math, including Algebra 1, Geometry, and Algebra 2. Students who complete Algebra 2 prior to their final year must complete the four-year mathematics requirement by taking a course or courses that utilize non-trivial algebra. Pre-College Math and Consumer Mathematics do not meet the USM definition of "non-trivial algebra."</li> <li>Consumer Mathematics is for seniors only and requires co-enrollment with Geometry or Algebra 2.</li> </ul>

# How do I select the right course for me after Algebra II?

## How to Be an AP Precalculus Student

1. Successfully complete Algebra II
2. Take AP Precalculus



### Why Take AP Precalculus?

- Prepare for calculus and other higher-level math needed for STEM majors and careers.

But even if you're not planning on a STEM career...

- Fulfill a core college math requirement so you can focus on courses for your major.

### What are some real-world applications of AP Precalculus?

- Social Media: How quickly can I reach influencer status?
- Economics: How does price affect people's purchasing of soft drinks versus baby formula?
- Biology: How long does it take the human body to process anesthesia?

### What is AP Precalculus?

AP Precalculus helps you level up your math skills by exploring different types of functions and seeing how they show up in real life. It's a course that builds confidence and opens doors—whether you're interested in science, health, business, data, or any career that uses problem-solving. By taking AP Precalculus, you're setting yourself up for success in your future goals.



About 80% of AP Precalculus Exam takers earned a 3 or better in 2025!

## Why Take Statistics?



Statistics isn't just for college—it's for life. Every day, we see data in sports scores, social media trends, weather forecasts, and even health decisions. Learning statistics helps you understand what those numbers really mean, spot patterns, and make better choices. Knowing statistics helps you understand the world around you.

In a statistics course, you'll learn how to:

- **Analyze Data** – Collect and interpret information.
- **Find Patterns** – Discover trends and relationships.
- **Understand Probability** – Measure uncertainty and predict outcomes.
- **Make Smart Decisions** – Use data to justify conclusions.

Don't get fooled by flashy headlines - statistics shows the real story!



Your favorite apps run using algorithms based in statistics. Learn the math behind the magic!



### Do I Need Statistics in College?

Statistics is required for many college majors, like nursing, marketing, and even journalism! Use the QR code to see if your intended major is on the list!



### Should I Take AP Statistics?

No matter your future path, taking AP Statistics provides the opportunity to earn college credit for taking Statistics in high school.

