The Secondary Mathematics course sequence for Baltimore County Public Schools is designed with these guiding principles in mind:

<table>
<thead>
<tr>
<th>Middle School Course Sequence Principles</th>
<th>High School Course Sequence Principles</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Provide students access to all the middle school standards (grade 6, 7, and 8) prior to Algebra 1.</td>
<td>✓ Provide students opportunities to earn credits for courses that build on the content from prerequisite courses.</td>
</tr>
<tr>
<td>✓ Provide students opportunities to access Algebra 1 by grade 8.</td>
<td>✓ Allow students to select course sequences that are based on their post-secondary school goals. This includes a calculus pathway or a statistics pathway.</td>
</tr>
<tr>
<td>✓ Provide access and opportunity to standards aligned, rigorous instruction (balance of conceptual understanding, procedural fluency, and application).</td>
<td>✓ Provide access and opportunity to standards aligned, rigorous instruction (balance of conceptual understanding, procedural fluency, and application).</td>
</tr>
<tr>
<td>✓ Use consistent data protocols to drive placement decisions.</td>
<td>✓ Use consistent data protocols to drive placement decisions.</td>
</tr>
</tbody>
</table>

The current COMAR mathematics enrollment and mathematics credit requirements for graduation are as follows:

**Enrollment Requirement** ([COMAR 13A.03.02.03](#))

- Beginning with students entering the 9th grade class in the 2014 – 2015 school year, each student shall enroll in a mathematics course in each year of high school that the student attends, up to a maximum of 4 years of attendance, unless in the 5th or 6th year a mathematics course is needed to meet a graduation requirement.

**Credit Requirements** ([COMAR 13A.03.02.03](#))

- Students who entered the 9th grade class in the 2020 – 2021 school year or earlier must earn 3 mathematics credits, including:
  - One with instruction in algebra aligned with the Maryland Comprehensive Assessment for algebra or one or more credits in subsequent mathematics courses for which Algebra I is a prerequisite, and
  - One with instruction in geometry aligned with the content standards for geometry.

- Beginning with students entering the 9th grade class in the 2021 – 2022 school year, students must earn 4 mathematics credits, including:
  - One with instruction in algebra aligned with the Maryland Comprehensive Assessment for algebra or one or more credits in subsequent mathematics courses for which Algebra I is a prerequisite, and
  - One with instruction in geometry aligned with the content standards for geometry.
Baltimore County Public Schools
Mathematics Program Grades 6 – 12

Key:
- Data Checkpoint: Grade 5 Universal Screening.
- Data Checkpoint and Summer Programming to cover Math 7A content (Math Pi-oneers).
- Data Checkpoint and Spring / Summer Programming to cover Math 8 content (Sprummer Course).
- Courses labeled with a star (★) require prerequisite courses beyond Algebra 2. Refer to the course description for prerequisite requirements for these courses.
- IB Applications and Interpretations (IB A&I) is a two year course only offered at Kenwood High School and New Town High School in their International Baccalaureate Diploma Programme.

Baltimore County Public Schools
Office of Mathematics, PreK - 12

Page 2 of 2
Last Updated February 13, 2022