THE WORLD IS CHANGING.
WILL YOUR CHILD BE READY?

A GUIDE TO CHOOSING THE RIGHT MATH COURSE FOR YOUR CHILD

MATH MATTERS

ADDITIONAL RESOURCES

GEORGIA DEPARTMENT OF EDUCATION CAREER CLUSTERS
The Georgia Department of Education’s Career Clusters/Pathways Resource page provides comprehensive information on career options for students. It also includes a recommended sequence of courses for students to successfully complete a pathway.

GACOLLEGE 411
GACollege411 provides information on how to apply to college or for financial aid. They also provide resources on career planning and exploration.
https://www.gacollege411.org

UNIVERSITY SYSTEM OF GEORGIA
The University System of Georgia’s Staying on Course Document provides the list of high school courses that students may take to count towards college admissions.

WHY IS MATH IMPORTANT?

• Across growing industries, an increasing number of careers require higher math knowledge.
• A majority of workers who earn more than $40,000 annually have two or more high school credits of math at the Algebra 2 level or higher.
• Students who are able to place out of math remediation at University System of Georgia institutions are much more likely to finish their degree and graduate on time.

NEXT STEPS

HOW CAN PARENTS HELP?

• Be knowledgeable. Understand what type of math classes your child will need to succeed in life after high school.
• Be active. Participate in your child’s class scheduling to make sure they are taking the right amount of math.

YOUR CHILD’S NEXT CONFERENCE

Date _________________________________
Time _________________________________
Teacher _______________________________
Notes ________________________________

______________________________________

______________________________________

______________________________________

______________________________________
Georgia requires that all high school students take 4 years of math to ensure they are prepared for college and careers. There are 4 different possible sequences students can take to stay on track:

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
<th>Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Algebra*</td>
<td>Algebra</td>
<td>Geometry</td>
<td>Algebra II</td>
<td>STEM and Non-STEM Technical Certificates</td>
</tr>
<tr>
<td>Algebra</td>
<td>Geometry</td>
<td>Algebra II</td>
<td>4th Unit of Advanced College Prep Mathematics</td>
<td>Non-STEM Majors</td>
</tr>
<tr>
<td>Algebra</td>
<td>Geometry</td>
<td>Algebra II</td>
<td>Pre-Calculus</td>
<td>STEM and Non-STEM Majors</td>
</tr>
<tr>
<td>Geometry (Student completes Algebra in 8th Grade)</td>
<td>Algebra II</td>
<td>Pre-Calculus</td>
<td>Calculus or AP Calculus</td>
<td>STEM Majors</td>
</tr>
</tbody>
</table>

**WHERE CAN MATH LEAD YOU?**

Students planning on receiving a 2 or 4 year college degree from the University System of Georgia need to make sure they take the right 4th year math course to continue their degree progression. Students who take more math in high school may place out of the recommended 1st year college math course.

<table>
<thead>
<tr>
<th>Major</th>
<th>Recommended 12th Grade Math Course</th>
<th>Freshman Math (Course 1)</th>
<th>Freshman Math (Course 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Majors and all Georgia Tech Students</td>
<td>Pre-Calculus or higher</td>
<td>Calculus</td>
<td>Calculus II</td>
</tr>
<tr>
<td>STEM Majors</td>
<td>Pre-Calculus</td>
<td>Pre-Calculus or College Trigonometry</td>
<td>Calculus</td>
</tr>
<tr>
<td>Majors that Require Calculus</td>
<td>Pre-Calculus or a 4th Unit of Advanced College Prep Math</td>
<td>College Algebra</td>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>All other majors (i.e. liberal arts, humanities, social sciences)</td>
<td>4th Unit of Advanced College Prep Math</td>
<td>Quantitative Reasoning or Mathematical Modeling</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

**MATH DURING HIGH SCHOOL**

- All students should plan on taking a math course each year of high school.
- Students may take additional math courses as electives to increase their preparedness for college level mathematics.
- Depending on what students would like to do after high school graduation, students can select the right math courses for their future using the table on the left.

**MATH AFTER HIGH SCHOOL**

- Students should select the math courses in high school that best fit with what they want to do after graduation. The table to the left can help.
- Students interested in Science, Technology, Mathematics, or Engineering (STEM) should plan on taking at least Pre-Calculus prior to their first year of college.
- Students who place in remedial math will have to take additional math courses in college to prepare them for college level math.

- Students can change majors, but may need to take additional math courses to meet their new major’s requirements.
- Students may be eligible to participate in dual enrollment at a USG institution after successful completion of Algebra II.

*Students who start in Foundations of Algebra should take a 5th Math course above Algebra II to ensure eligibility for USG admissions.