



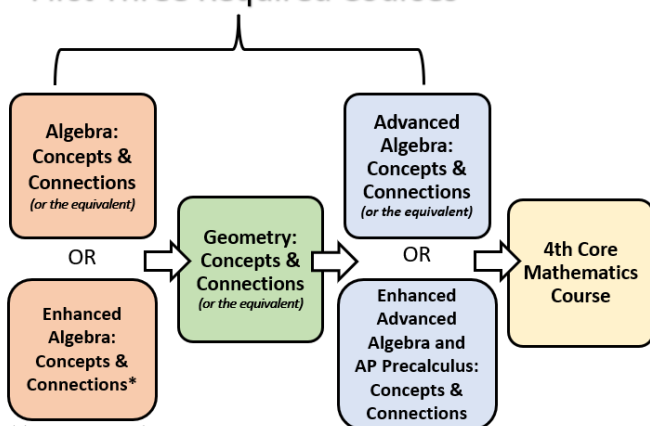
Georgia approved an updated set of K-12 Mathematics Standards in August 2021 with implementation beginning in the 2023-2024 school year. As part of the development process, particular attention was paid to aligning mathematics to industry and workforce needs and 21st century skills by incorporating mathematical practices and real-life, phenomenon-based expectations into the content standards, emphasizing mathematical modeling, and increasing the focus on K-12 statistical reasoning. More information on this updated set of standards can be found [here](#). Below find some key features of the revised high school mathematics curriculum.

- **Multiple Stakeholders**
 - Georgia created a team with a wide range of perspectives including business, industry and the University System of Georgia (USG), Technical College System of Georgia (TCSG), master teachers, high school level mathematics leaders, post-secondary university mathematics and statistics educators, technical college professors, parents, and community stakeholders.
- **Common Three-Year Experience:**
 - Georgia identified common learning objectives for the first three years of high school and then a variety of interest-driven pathway options for the fourth year of mathematics. These options are provided to align with students' passion, pursuits, and post-secondary interests so they can be in more control of their pathway options.
 - The first three required courses contain the core mathematical, and statistics standards needed for all students to be prepared for any post-secondary opportunity. The mathematical modeling and statistical reasoning frameworks are key components of all three core courses.



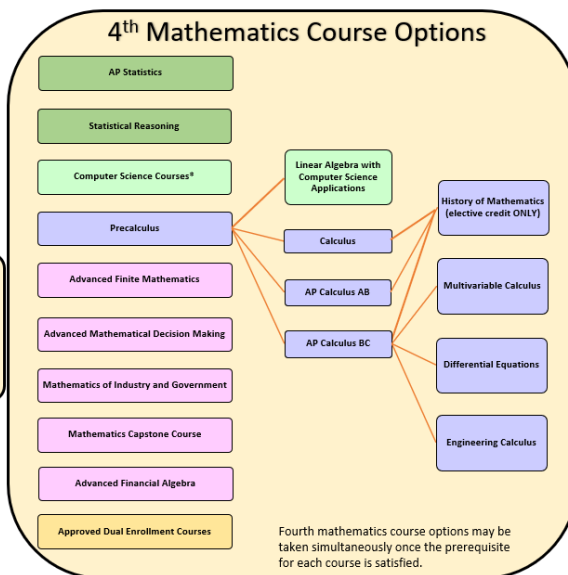
Mathematics Graduation Requirements for High School

First Three Required Courses



**This course is an equivalent course to high school Algebra: Concepts and Connections for eligible Grade 8 students.*

4th Mathematics Course Options



Fourth mathematics course options may be taken simultaneously once the prerequisite for each course is satisfied.



- **Modernized Advanced Algebra**
 - The Advanced Algebra course was modernized into a course that is approximately one-third algebra, one-third statistics, and one-third linear programming and data science.
- **Enhanced Course Options**
 - Students who are interested in taking courses that require multiple prerequisites, such as Linear Algebra with Computer Science Applications, Calculus, Engineering Calculus, Differential Equations, Multivariable Calculus, History of Mathematics, or Advanced Placement Courses, have the option to complete one or two enhanced courses that include equivalent content as the required core courses.
 - Enhanced Algebra: Concepts & Connections can be taken in Grade 8 and it includes equivalent content and standards from Grade 8 and Algebra: Concepts & Connections through a thoughtful blend of content involving linear and nonlinear functions.
 - Students have the flexible option to take Enhanced Advanced Algebra and AP Precalculus: Concepts & Connections, which is a modernized course that also could award AP credit.
 - All these course options are student-centered choices and opportunities to allow them to move further on the trajectory of mathematics learning in secondary schools. Any student is eligible to select these courses based on their interests and post-secondary aspirations.
- **Interest Driven Pathways:**
 - The dark green courses are the statistical reasoning pathway options, the light green courses are the data science and computational science pathway options, the violet courses are the calculus-based pathway options, and the pink courses are the mathematical modeling pathway options. It is important to note that these pathways are not mutually exclusive.
 - All interest-driven pathways promote rigorous learning outcomes for students preparing them for the post-graduate world.
 - Students can choose any courses and pathways that match their interests and future plans.