**Student Plan of Study – Masonry**

**Grade Level** | **I. English/Language Arts** Total 4 credits | **II. Math** Total 4 credits | **III. Science** Total 4 credits | **IV. Social Studies** Total 3 credits | **V. Health/Personal Fitness** Total 1 credit | **VI. Possible electives in additional pathways** (students should check the local course description catalog for these and other electives) Total 4 credits
---|---|---|---|---|---|---
**9** | 9th Literature & Composition or Approved Dual Enrollment Course | 1 CCGPS Cord Algebra | 1 CCGPS Analytic Geometry | 1 CCGPS Accel Algebra/Analytic Geometry | 1 CCGPS Accel Analytic Geometry/Adv Alg | 1 CCGPS Pre-Calculus | Advanced Academic Pathways

--- | --- | --- | --- | --- | --- | ---
**10** | 10th Literature & Composition or World Literature & Composition or Approved Dual Enrollment Course | 1 CCGPS Analytic Geometry | 2 CCGPS Adv Algebra | 1 CCGPS Analytic Geometry/Adv Algebra | 4 CCGPS Pre-Calculus | 1 CCGPS Adv Algebra | World Language Pathways

--- | --- | --- | --- | --- | --- | ---
**11** | American Literature/Composition or AP English Language & Composition/American Lit or Approved Dual Enrollment Course | 1 CCGPS Adv. Algebra | 2 CCGPS Pre-Calculus | 3 CCGPS Accel Pre-Calculus | 4 CCGPS Calculus or AP Calculus | 1 CCGPS Adv. Algebra | Fine Arts/Performing Arts Pathways

--- | --- | --- | --- | --- | --- | ---
**12** | Advanced Composition or British Literature or AP/IB English Literature & Composition or Approved Dual Enrollment Course | 1 CCGPS Pre-Cal or Adv Math Decision Making or Math of Ind & Govern or AP Stats or IB Math or Approved Dual Enrollment Course | 1 CCGPS Accelerated/Adv Algebra | 1 CCGPS Advanced Algebra | 1 CCGPS Advanced Algebra | 1 CCGPS Advanced Algebra | Georgia Virtual School and ACCEL courses may be available.

At the end of the 11th grade, students planning to enter a University System of Georgia Institution or Technical College System of Georgia should take the appropriate admissions test (SAT, ACT, Compass).

Legend:

- Science: Advanced Placement (AP), Dual Enrollment, Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.

**Possible electives in additional pathways** (students should check the local course description catalog for these and other electives) Total 4 credits

- Advanced Academic Pathways
  - English/Language Arts, Math, Science, Social Studies
  - An advanced academic pathway may be followed in any one of the content subjects listed above. Upon graduation, students earn advanced academic pathway when they complete the related coursework to include at least one AP or one IB or one Dual Enrollment course. An advanced academic pathway should also include at least two credits in one world language. AP, Dual Enrollment and Georgia Virtual School courses may be available.

- World Language Pathways
  - **Two credits are required for admissions to University System Institutions.**
  - A world language pathway may be followed in any of the world language areas included in the state list of approved courses. Upon graduation, students earn a world language pathway when they complete three credits in one language. The third course may reflect an AP, IB or Dual Enrollment designation. Georgia Virtual School and ACCEL courses may be available.

- Fine Arts/Performing Arts Pathways
  - Visual Arts, Dance, Music, Journalism, Theatre

- **Two credits are required for admission to University System of Georgia institutions.**

- **Two credits are required for admission to University System of Georgia institutions.**

- **Students must complete two credits of the same world language for admission to University System of Georgia institutions.**

- **Students should complete a CTAE pathway and take the related end of pathway assessment.**

NOTE: Local systems may core courses in a different sequence; not all local systems offer every pathway. Students should explore all credit possibilities including Georgia’s Virtual School Program, Dual Enrollment, Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.
**SAMPLE Pathway OCCUPATIONS**

See *Georgia’s HOT Careers to 2020* for more information on high-skilled, high-wage and high-demand occupations.

<table>
<thead>
<tr>
<th>Occupation Specialties</th>
<th>Entry Level of Education Needed</th>
<th>2012 Annual Wage</th>
<th>Annual Openings 2012-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick Masons &amp; Block Masons</td>
<td>High School</td>
<td>$40,700</td>
<td>30</td>
</tr>
<tr>
<td>Cement Masons &amp; Concrete Finishers</td>
<td>High School</td>
<td>$31,200</td>
<td>130</td>
</tr>
<tr>
<td><em>Cost Estimators</em></td>
<td>Bachelor’s Degree</td>
<td>$57,300</td>
<td>210</td>
</tr>
</tbody>
</table>

Source: Georgia Department of Labor/ONET

For more information about your education and career planning, including valuable financial aid information that includes grants and scholarships, see your school counselor.

***Current Georgia Graduation Rule***

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Credits</th>
<th>Coursework</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. English/Language Arts</td>
<td>4</td>
<td>V. Health &amp; Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>II. Math</td>
<td>4</td>
<td>VI. **Career, Technical &amp; Agricultural Education</td>
<td>3</td>
</tr>
<tr>
<td>III. *Science</td>
<td>4</td>
<td>and/or ***World Languages, and/or Fine Arts</td>
<td>4</td>
</tr>
<tr>
<td>IV. Social Studies</td>
<td>3</td>
<td>VII. Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>23</td>
<td></td>
<td>23</td>
</tr>
</tbody>
</table>

*Selected 4th Science courses may be used to meet both the required science and required elective in a CTAE sequence of courses.**

**Students must complete three credits to complete a CTAE pathway and take the end of pathway assessment.**

***Students must complete two credits of the same world language for admission to Georgia Board of Regents colleges/universities.***

**** Current graduation requirements should be met in all content areas.**

NOTE: This plan represents minimum graduation requirements. Local systems may require additional coursework.

**Postsecondary Transition:**

- Students who will continue their education in a Program of Study at one of the University System of Georgia institutions should prepare to take the ACT or SAT for admissions. Tests for admissions may vary from institution to institution. Contact the selected institution for specific testing information. Additional admissions information can be found at Staying On Course, [www.usg.edu/student_affairs/documents/Staying_on_Course.pdf](http://www.usg.edu/student_affairs/documents/Staying_on_Course.pdf).
- Students who will continue their education in a Program of Study at one of the Technical College System of Georgia institutions should prepare to take the COMPASS test for admissions.
- Students who will continue their education and training in the US Military should take the ASVAB assessment.
- Students should utilize electronic college and career data bases to select the most appropriate postsecondary opportunities to match their selected career field, including registered apprenticeships.
- Georgia’s dual-credit programs have been combined into one program entitled Move on When Ready, in which high school students may earn their high school course credits while taking college courses.

**Possible Student Pathway Credentialing Opportunities:**

Students completing a pathway are eligible to take a Credentialing/End of Pathway Assessment (EOPA) upon successful completion of the three required courses in the pathway. For specific assessment information, refer to [http://www.gadoe.org/Curriculum-instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx](http://www.gadoe.org/Curriculum-instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx).

**Architecture & Construction/Masonry**

Construction is one of the nation’s largest industries with over 7 million wage and salary jobs and 1.9 million self-employed workers. Construction includes the building of new structures as well as additions and modifications to existing ones. The construction industry also includes maintenance, repair and improvements on these structures.

- Brick masons, block masons, and stone masons (or, simply, masons) use bricks, concrete blocks, and natural stones to build fences, walkways, walls, and other structures. The work is physically demanding because masons often must lift heavy materials, stand, kneel, and bend for long periods of time. They usually work outdoors, and poor weather conditions may reduce work activity. Most masons work full time.
- Although most masons learn through a formal apprenticeship, some learn informally on the job. Others learn through 1- or 2-year programs at technical colleges.
- Overall employment of masons is projected to grow 40 percent from 2010 to 2020, much faster than the average for all occupations. Population growth will create a need for schools, hospitals, apartment buildings, and other structures, but construction of these buildings may be delayed as state and local governments face budget shortfalls. Highly skilled masons with a good job history and work experience in construction should have the best job opportunities.

The following are common types of masons:

- Brick masons and block masons—who often are called bricklayers
- Pointing, cleaning, and caulking workers repair brickwork
- Refractory masons are brick masons who specialize in installing firebrick and refractory tile
- Stone masons build stone walls, as well as set stone exteriors and floors.

Richard Woods, Georgia’s School Superintendent

"Educating Georgia’s Future"