PROGRAM OF STUDY: Masonry

This Program of Study may serve as a graduation guide for the next four plus years, along with other career planning and educational materials. Courses listed in this model may include recommended coursework and should be individualized to students’ educational and career goals. Each graduation plan needs to meet minimum high school graduation requirements. Dual Enrollment courses can be high school academic and/or career technical education courses.

<table>
<thead>
<tr>
<th>COURSE/ GRADE</th>
<th>NINTH</th>
<th>TENTH</th>
<th>ELEVENTH</th>
<th>TWELFTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>9th grade Lit/ Composition</td>
<td>10th grade Lit/ Composition</td>
<td>American Lit/ Composition</td>
<td>World Lit/ Composition / British Lit</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>Coordinate Algebra / Algebra I</td>
<td>Analytic Geometry / Geometry</td>
<td>Advanced Algebra / Algebra II</td>
<td>Pre-calculus</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>Physical Science</td>
<td>Biology</td>
<td>Chemistry</td>
<td>Physics</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>Government</td>
<td>World History</td>
<td>US History</td>
<td>Economics</td>
</tr>
<tr>
<td>PATHWAY COMPLETER</td>
<td>Industry Fundamentals &amp; Occupational Safety</td>
<td>Introduction to Construction</td>
<td>Masonry I</td>
<td>Another course in focus area, Work-Based Learning, or Youth Apprenticeship</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required/ Selective Electives</th>
<th>Industry Recognized Credential (Pathway Completer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modern Language/Latin</td>
<td>Health &amp; Personal Fitness (can be taken in grades 9-12)</td>
</tr>
<tr>
<td></td>
<td>(2 units required for admissions to Georgia University System Colleges/Universities) For a listing of Modern Language/Latin courses offered at your high school, please contact your advisor, counselor, or curriculum handbook.</td>
</tr>
<tr>
<td></td>
<td>Introduction to Business Technology</td>
</tr>
<tr>
<td></td>
<td>Financial Literacy</td>
</tr>
<tr>
<td></td>
<td>Plumbing II</td>
</tr>
<tr>
<td>Other Electives</td>
<td>For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.</td>
</tr>
</tbody>
</table>

Postsecondary Transition
- University System of Georgia Institutions: Admissions Testing
  - ACT or SAT
  - For More Information contact the institution of your choice
- Technical College System of Georgia
  - Placement Exam
- United States Military
  - ASVAB Assessment
- Use BRIDGE Law platform to inform decisions on postsecondary opportunities
- Dual Enrollment
- Earning high school course credits while taking college courses

Masonry Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in the Masonry Pathway, students are eligible to complete the industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Masonry pathway will be able to sit for the National Industry Credentialed assessment offered on-line from NCCER and SkillsUSA. Once mastery is reached, students will receive recognition for completion and use this credential in conjunction with their job or continuing training. For specific assessment information, refer to: http://bit.ly/ArchConstEOPA.

Masonry Pathway Description

Construction is one of the nation’s largest industries with over 7 million wage and salary jobs and 1.9 million self-employed workers. 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 mason programs at technical colleges. Overall employment of masons is projected to grow 40 percent from 2014 to 2024, 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.

Sample In Demand Careers in Georgia

<table>
<thead>
<tr>
<th>Occupation Specialties</th>
<th>Level of Education Needed</th>
<th>Georgia Average Salary</th>
<th>Annual Average Openings in Georgia</th>
<th>2018 – 2028 Employment Outlook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plasterers and Stucco Masons</td>
<td>High School Diploma</td>
<td>$32,824</td>
<td>258</td>
<td>In Demand, High Skill</td>
</tr>
<tr>
<td>Stone Mason</td>
<td>High School Diploma</td>
<td>$38,500</td>
<td>159</td>
<td>In Demand, High Skill</td>
</tr>
<tr>
<td>Brick and Block Masons</td>
<td>Technical Certificate</td>
<td>$36,572</td>
<td>115</td>
<td>In Demand, High Skill</td>
</tr>
<tr>
<td>Cement Masons/Concrete Finishers</td>
<td>Technical Certificate</td>
<td>$36,724</td>
<td>298</td>
<td>In Demand, High Skill</td>
</tr>
</tbody>
</table>

Related Pathway Occupations
- Masons
- Plumbing Craft Laborers
- Construction Inspectors
- Cost Estimators
- Construction Foremen

Other Related Occupations
- Construction Engineers
- Project Inspectors
- Project Managers

O*NET Online
## PROGRAM OF STUDY:
### Masonry

**NOTE:** Students have many options to **ENTER** and **EXIT** from their academic studies into the workforce. When a student graduates from high school, they are eligible to choose one of many **ENTRANCE POINT** options: 1. Enroll in either a 2- or 4-year post-secondary program; 2. Enroll in an apprenticeship program or the military; or 3. Enter the workforce using technical skills learned in high school. When a student finishes a 2- or 4-year degree program, they may choose to **EXIT** and 1. Enroll in an apprenticeship program or the military; 2. Enroll in a professional university degree program; or 3. Enter the workforce using technical skills learned.

### POSTSECONDARY:

<table>
<thead>
<tr>
<th>TCC</th>
<th>DIPLOMA OR AAS</th>
<th>BACHELOR OF SCIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT41 NCCER Masonry Technician TCC</td>
<td>MT12 NCCER Masonry Technology Diploma  MT41 TCC plus ENGL 1010 Fundamentals of English I MATH 1012 Foundations of Mathematics EMPL 1000 Interpersonal Relations and Professional Development COMP 1000 Introduction to Computer Literacy</td>
<td>The University System of Georgia offers students’ higher education options at 30 institutions throughout the state, providing a wide range of academic programming including certificates and associate, baccalaureate, masters, doctoral and professional degrees. [<a href="https://apps">https://apps</a> ds.usg.edu/ords/f?p=118:1:0:::USG Staying on Course](<a href="https://apps">https://apps</a> ds.usg.edu/ords/f?p=118:1:0:::USG Staying on Course.pdf):</td>
</tr>
<tr>
<td>COFC 1080 Construction Trades Core MSNR 1015 Introduction to Masonry MSNR 1025 Masonry Installation Techniques MSNR 1035 Intermediate Masonry I MSNR 1055 Intermediate Masonry II MSNR 1105 Advanced Masonry I MSNR 1115 Advanced Masonry II</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Go to GAfutures at [www.gafutures.org](http://www.gafutures.org) for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, grants, and loans, FAFSA, and CSS forms).

### Career Enhancement Opportunities
- Career Awareness
- Career Exploration
- Instructional Related
- Connecting
- Work-Based Learning
- Employability Skill Dev.
- Cooperative Education
- Internship
- Youth Apprenticeship
- Clinicals

### Postsecondary Options:
- 4-Year Universities/Colleges
- 2-Year Colleges
- Technical Colleges
- State Registered Apprenticeships
- Special Purpose Schools
- On-the-Job Training
- Military

### Earning Postsecondary Credits While in High School
- Dual Enrollment Program
- Earn postsecondary credit while in high school
- You can complete
  - Industry Credential
  - Technical Certificate of Credit (TCC)
  - Associates of Applied Science Degree
  - Bachelor’s Degree
- Who can help?
  - Parents
  - School Counselor
  - Advisor

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