

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.

SECONDARY:					POSTSECONDARY:		
COURSE/ GRADE	NINTH	TENTH	ELEVENTH	TWELFTH	TCC	DIPLOMA OR AAS	BACHELOR OF SCIENCE
ENGLISH	9 th grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition	World Lit/ Composition / British Lit	Entrance/Exit Point	Entrance/Exit Point	Entrance/Exit Point
MATHEMATICS	Coordinate Algebra / Algebra I	Analytic Geometry / Geometry	Advanced Algebra / Algebra II	Pre-calculus			
SCIENCE	Physical Science	Biology	Chemistry	Physics			
SOCIAL STUDIES	World History	Psychology	US History	Government (½ unit) Economics (½ unit)			
PATHWAY COMPLETER	Industry Fundamentals & Occupational Safety	Introduction to Construction	Masonry I	Another course in focus area, Work-Based Learning, or Youth Apprenticeship			
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)					
Required/ Selective Electives	Health & Personal Fitness (can be taken in grades 9-12)	Introduction to Business Technology	Financial Literacy	Plumbing II	Entrance/Exit Point	Entrance/Exit Point	Entrance/Exit Point
	Modern Language/Latin 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.		Other Electives For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.				
					Entrance/Exit Point	Entrance/Exit Point	Entrance/Exit Point

MT41 Masonry Technology NCCER Certificate

AM31 Advanced Masonry NCCER Certificate

BM71 Basic Masonry NCCER Certificate

MT12 Masonry Technology NCCER Diploma

[Find the campus for the Diploma, Degree options](#)

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.

<https://apps.ds.usg.edu/ords/f?p=118:1:0>

[Find the campus for the TCC options](#)

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.

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>.

Sample In Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Brick and Block Masons	Technical Certificate	\$36,572	115	In Demand, High Skill
Cement Masons and Concrete Finishers	Technical Certificate	\$36,724	298	In Demand, High Skill
Stonemasons	High School Diploma	\$38,500	159	In Demand, High Skill
Plasterers and Stucco Masons	High School Diploma	\$32,824	258	In Demand, High Skill

[Data link here.](#)

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-Related Education Activities <ul style="list-style-type: none"> Career Awareness Career Exploration Instructional Related Connecting <ul style="list-style-type: none"> Work-Based Learning Employability Skill Dev. Cooperative Education Internship Youth Apprenticeship Clinicals 	Postsecondary Options: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Dual Enrollment Program Earn postsecondary credit while in high school You can complete <ul style="list-style-type: none"> Industry Credential Technical Certificate of Credit (TCC) Associates of Applied Science Degree Bachelor's Degree Who can help? <ul style="list-style-type: none"> Parents School Counselor Advisor
	Postsecondary Transition <ul style="list-style-type: none"> University System of Georgia Institutions: Admissions Testing <ul style="list-style-type: none"> ACT or SAT For More Information: <ul style="list-style-type: none"> Contact the institution of your choice OR Technical College System of Georgia <ul style="list-style-type: none"> Placement Exam United States Military <ul style="list-style-type: none"> ASVAB Assessment Use BRIDGE Law platform to inform decisions on postsecondary opportunities Dual Enrollment <ul style="list-style-type: none"> Earning high school course credits while taking college courses 		
Related Pathway Occupations		Other Related Occupations	
<ul style="list-style-type: none"> Masons • Brick Masons • Plumbing Craft Laborers Cost Estimators • Construction Foremen Construction Inspectors 		<ul style="list-style-type: none"> Construction Engineers • Project Inspectors • Project Managers 	
*ONET Online			

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. 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 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.

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.