

Program of Study: Carpentry



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: Carpentry				Postsecondary			
Course/Grade	Ninth	Tenth	Eleventh	Twelfth	TCC	Diploma or ASS	Bachelor of Science	
English	9 th grade Lit/Composition	10 th grade Lit/Composition	American Lit/Composition	World Lit/Composition / British Lit	Entrance or Exit Point	CCW1 TCC Certified Construction Worker - COFC 1011 Overview of Building Const. Practicum - COFC 1020 Prof. Tool Use and Safety - COFC 1050 Const. Print Reading Fundamentals IC11 TCC – Industrial Construction I - COFC 1011 Overview of Building Const. Practicum - COFC 1020 Prof. Tool Use and Safety - COFC 1070 Site Layout, Footings and Foundations	Completion of the CCW1 Certified Construction Worker TCC or IC11 Industrial Construction I TCC leads to CA22 Carpentry diploma or CA23 Carpentry degree.	Entrance or Exit Point
Mathematics	Coordinate Algebra / Algebra I	Analytic Geometry / Geometry	Advanced Algebra / Algebra II	Pre-calculus				
Science	Physical Science	Biology	Chemistry	Physics				
Social Studies	Psychology	World History	US History	Government (½ unit) Economics (½ unit)				
Pathway Completer	Industry Fundamentals & Occupational Safety	Introduction to Construction	Carpentry	Work-Based Learning, Youth Apprenticeship, or Capstone Project				
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)	Forestry Science II	Agribusiness Management and Leadership	AP Biology				
	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.					

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.

Carpentry Career Pathway Completers - Industry Credentialing for High School Students
 Upon completion of sequenced courses in the Carpentry Career Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Carpentry pathway will be able to sit for the National Industry Credentialed assessment offered on-line from NCCER, and NOCTI. 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 High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Construction Carpenters	Postsecondary Certificate	\$39,700	499	High Demand, High Skill
Construction Managers	Bachelor's Degree	\$99,756	136	High Demand, High Skill
Construction & Building Inspectors	Bachelor's Degree	\$53,108	87	High Demand, High Skill

GDOL Labor Market Explorer

Go to GAfutures at 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	<p>Career-Related Education Activities</p> <ul style="list-style-type: none"> <input type="checkbox"/> Career Awareness <input type="checkbox"/> Career Exploration <input type="checkbox"/> Instructional Related <input type="checkbox"/> Connecting <input type="checkbox"/> Work-Based Learning <ul style="list-style-type: none"> • Employability Skill Dev. • Cooperative Education • Internship • Youth Apprenticeship • Clinicals 	<p>Postsecondary Options:</p> <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 	<p>Earning Postsecondary Credits While in High School</p> <p>A vital way to get ahead and realize you can pass college courses is by earning postsecondary credits as a high school student. Georgia offers a dual credit program titled Dual Enrollment. You need to talk with your parents, school counselor, or advisor about the proper courses to take each year in high school and dual credit.</p> <p>Students completing the course work in this Plan, will have earned/completed an Industry Credential, Technical Certificate of Credit (TCC), Associates of Applied Science Degree, and/or Bachelor's Degree.</p>
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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. (https://www.usg.edu/assets/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 complete a placement exam.
- Students who will continue their education and training in the US Military should take the ASVAB assessment.
- Students should utilize electronic college and career databases 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 Dual Enrollment, in which high school students may earn their high school course credits while taking college courses.

Related Pathway Occupations	Other Related Occupations
<ul style="list-style-type: none"> • Carpenters • Construction Craft Laborers • Construction Foremen • Construction Inspectors • Construction Managers • Drywall Installers • Floor Layers 	<ul style="list-style-type: none"> • Construction Engineers • Painters • Paperhangers • Project Inspectors • Project Managers • Roofers <p style="text-align: right;">*ONET Online</p>

Carpentry 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.

Carpenters construct and repair building frameworks and structures—such as stairways, doorframes, partitions, and rafters—made from wood and other materials. They also may install kitchen cabinets, siding, and drywall.

Because carpenters are involved in many types of construction, from building highways and bridges to installing kitchen cabinets, they may work both indoors and out. The work is sometimes strenuous.

Although most carpenters learn their trade through a formal apprenticeship, some learn on the job, starting as a helper.

Employment of carpenters is projected to grow 20 percent from 2010 to 2020, faster than the average for all occupations. Job prospects for carpenters should improve over the decade as construction activity rebounds from the recent recession.

Carpenters are one of the most versatile construction occupations, with workers usually doing a variety of tasks. For example, some carpenters insulate office buildings; others install drywall or kitchen cabinets in homes. Those who help construct large buildings or bridges often make the wooden concrete forms for cement footings or pillars. Some carpenters build braces and scaffolding for buildings.

Carpenters use many different hand and power tools to cut and shape wood, plastic, fiberglass, or drywall. They commonly use hand tools, including squares, levels, and chisels, as well as many power tools, such as sanders, circular saws, and nail guns. Carpenters put materials together with nails, screws, staples, and adhesives, and do a final check of their work to ensure accuracy.