PROGRAM OF STUDY: Plumbing









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.

		SECON	NDARY:				P	OSTSECONDA	₹Y	:
COURSE/ GRADE	NINTH	TENTH	ELEVENTH	TWELFTH		тсс		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	S	PS41 Plumbing Service and Systems Specialist	ervice and Systems pecialist ertificate P11 Residential/ ommercial umbing Technician ertificate P11 NCCER umbers Assistant ertificate F11 NCCER	ட PL12 Plumbing and	μÛ 3	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
MATHEMATICS	Coordinate Algebra / Algebra I	Analytic Geometry / Geometry	Advanced Algebra / Algebra II	Pre-calculus		Certificate				
SCIENCE	Physical Science	Biology	Chemistry	Physics	int E	Commercial Plumbing Technician Certificate				
SOCIAL STUDIES	World History	Psychology	US History	Government (½ unit) Economics (½ unit)	ixit	BP11 NCCER Plumbers Assistant				
PATHWAY COMPLETER	Industry Fundamentals & Occupational Safety	Introduction to Construction	Plumbing I	Another course in focus area, Work-Based Learning, or Youth Apprenticeship	Entrar	Certificate PT11 NCCER				
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)			Plumbing Technician Certificate		<u>Dipioma, Degree options</u>]	professional degrees. https://apps.ds.usg.edu/ords/ f?p=118:1:0:	
Required/	Health & Personal Fitness (can be taken in grades 9-12)	Introduction to Business Technology	Financial Literacy	Plumbing II		AP61 NCCER Advanced Plumbing Technician				
Selective Electives	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 t your high school, please check with your advisor, counselor, or curriculum handbook.			Certificate 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.

Plumbing Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in the <u>Plumbing</u> Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the <u>Plumbing</u> pathway will be able to sit for the National Industry Credentialed assessment offered on-line from <u>NCCER and SkillsUSA</u>. 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				
Construction Plumbers	Postsecondary Certificate	\$45,626	1,570	In Demand, High Skill				
Construction Managers	Bachelor's Degree	\$99,756	136	In Demand, High Skill				
Pipe Fitters and Steamfitters	Postsecondary Certificate	\$45,626	1,570	In Demand, High Skill				
First Line Supervisors of Construction Trades and Extraction Workers	Postsecondary Certificate	\$61,203	1,942	In Demand, High Skill				

Data link here

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).

Activities Career Awareness Career Enhancement Opportunities Career Exploration Instructional Related Connecting Work-Based Learning Employability Skill Dev. · Cooperative Education

Internship

Clinicals

Youth Apprenticeship

Career-Related Education

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

Postsecondary Transition

- University System of Georgia Institutions: Admissions Testing
 - ACT or SAT
 - For More Information:
 - Contact the institution of your choice OR
- 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

	Related Pathway Occupations	Other Related Occupations						
- 1		 Construction Engineers Project Inspectors Project Managers 						
F	Foremen • Construction Inspectors	*ONET Online						

Plumbing 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. Plumbers, pipefitters, and steamfitters install and repair pipes that carry water, steam, air, or other liquids or gases to and in businesses, homes, and factories. They work in factories, homes, businesses, and wherever else there are pipes or septic systems.

Workers must often lift heavy materials, climb ladders, and work in tight spaces. Some plumbers travel to a variety of work sites every day. Most plumbers, pipefitters, and steamfitters learn on the job through an apprenticeship. Some start out by attending a technical school. Most states and localities require plumbers to have a license.

Employment of plumbers, pipefitters, and steamfitters is expected to grow 26 percent from 2014 to 2024, faster than the average for all occupations. Stricter water efficiency standards and new building and power plant construction are projected to spur demand for workers. There are different levels usually depending on training and experience.

For example, a master plumber on construction jobs may be involved with developing blueprints that show where all the pipes and fixtures will go. Their input helps ensure that a structure's plumbing meets building codes, stays within budget, and works well with the location of other features, such as electric wires.