PROGRAM OF STUDY: Industrial Maintenance









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	IDARY:				PO	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	Point	***************************************		Completion of IF11 Industrial Fluid Power Technician TCC leads to IST4 Industrial Systems Technology diploma or IS13 Industrial Systems Technology degree.		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			Entrance/Exit Point			
SCIENCE	Physical Science	Biology	Chemistry	Physics						
SOCIAL STUDIES	World History	Psychology	US History	Government (½ unit) Economics (½ unit)	ce/Exit	IF11 Industrial Fluid Power Technician Certificate				
PATHWAY COMPLETER	Industrial Mechanics	Fluid Power and Piping Systems	Electrical Motor Controls	Another course in focus area, Work-Based Learning, or Youth Apprenticeship	Entrar	Find the campus for				
	nized Credential Completer)	Visit the End of Pat	hway Assessment Pa	age (see note below)		the TCC options		Find the campus for the Diploma, Degree options		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 Digital Technology	Embedded Computing	AP Chemistry	-					
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 your high school, please check with your ad counselor, or curriculum handbook.			ective courses offered at e check with your advisor,						

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.

Industrial Maintenance Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in the Industrial Maintenance Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Industrial Maintenance pathway will be able to sit for the National Industry Credentialed assessment offered on-line from NCCER and NIMS. 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/GAManufacturing.

Sample In Demand Careers in Georgia								
Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook				
Industrial Machinery Mechanics	Postsecondary Certificate	\$45,688	424	In Demand, High Skill				
Maintenance Workers, Machinery	Diploma, some postsecondary	\$41,166	66	In Demand, High Skill				
Millwrights	Diploma, some postsecondary	\$48,030	65	In Demand, High Skill				
Mechanical Engineering Technician	Bachelor's Degree	\$57,064	184	In Demand, High Wage				

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).

Career-Related Education Postsecondary Options: Earning Postsecondary Credits While in **Activities High School** 4-Year Universities/ Career Awareness Colleges **Dual Enrollment Program** Career Enhancement Opportunities Career Exploration 2-Year Colleges Earn postsecondary credit while in Technical Colleges high school Instructional Related Connecting State Registered You can complete Work-Based Learning Apprenticeships Industry Credential Employability Skill Dev. Special Purpose Technical Certificate of Credit (TCC) · Cooperative Education Schools Associates of Applied Science On-the-Job Training Degree Internship Military · Bachelor's Degree Youth Apprenticeship Who can help? Clinicals 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			
Millwright	Tool & Die Workers			
Machinery Maintenance Workers	*ONET Online			

Industrial Maintenance Pathway Description

Industrial machinery mechanics and maintenance workers maintain and repair factory equipment and other industrial machinery, such as conveying systems, production machinery, and packaging equipment. Millwrights install, dismantle, repair, reassemble, and move machinery in factories, power plants, and construction sites.

Workers in this occupation must follow safety precautions and use protective equipment, such as hardhats, safety glasses, and hearing protectors. Most work full time. However, they may be on call and work night or weekend shifts. Overtime is common.

Industrial machinery mechanics and maintenance workers and millwrights typically need a high school diploma. However, industrial machinery mechanics need a year or more of training after high school, whereas maintenance workers typically receive on-the-job training that lasts up to a year. Most millwrights go through a 4-year apprenticeship.

Employment of industrial machinery mechanics and maintenance workers and millwrights is projected to grow 17 percent from 2014 to 2024, faster than the average for all occupations. The need to keep increasingly sophisticated machinery functioning and efficient will drive demand for these workers. Job prospects for qualified applicants should be very good.

Compare the job duties, education, job growth, and pay of industrial machinery mechanics and maintenance workers and millwrights with similar occupations.