

Program of Study: Automobile Maintenance and Light Repair



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: Automobile Maintenance and Light Repair					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 or Exit Point	Auto Electrical/ Electronic Systems Tech TCC (AE41) - AUTT 1010 Automotive Technology Introduction - AUTT 1020 Automotive Electrical Systems Auto Chassis Systems Tech TCC (ASG1) - AUTT 1030 Automotive Brake Systems - AUTT 1050 Automotive Suspension and Steering Systems Auto Climate Controls Tech TCC (AH21) - AUTT 1060 Automotive Climate Control Systems Auto Engine Performance Tech TCC (AE51) - AUTT 1040 Automotive Engine Performance <i>ASE Tech Test is an option.</i>	Automotive Fundamentals Diploma (AF12) - Complete Academic courses -AUTT 1010 Automotive Technology Introduction - AUTT 1020 Automotive Electrical Systems - AUTT 1030 Automotive Brake Systems - AUTT 1040 Automotive Engine Performance - AUTT 1050 Automotive Suspension and Steering Systems - AUTT 1060 Automotive Climate Control Systems Automotive Technology Degree (AT23) - AUTT 2010 Automotive Engine Repair - AUTT 2020 - Automotive Manual Drive Train & Axles - AUTT 2030 - Automotive Automatic Transmissions and Transaxles <i>ASE Tech Test is an option.</i>	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	Basic Maintenance and Light Repair	Maintenance and Light Repair 2	Maintenance & Light Repair 3	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)	Spanish I	Introduction to Business and Technology	Entrepreneurship				
	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.

Automobile Maintenance and Light Repair Career Pathway Completers - Industry Credentialing for High School Students
 Upon completion of sequenced courses in the Automobile Maintenance and Light Repair Career Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Automobile Maintenance and Light Repair pathway will be able to sit for the National Industry Credentialed assessment offered on-line from ASE. 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/GATDL>

Sample High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Automobile Technicians & Mechanics	Diploma, Industry Credential	\$49,637	145	High Demand, High Skill
Automotive Master Mechanics	Postsecondary Credentials	\$38,189	894	High Demand, High Skill
Automotive Specialty Technicians	Postsecondary Credentials	\$38,139	894	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	Career-Related Education Activities <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"> • Employment 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 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. 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.
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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. (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"> • Automobile Glass Installers & Repairers • Automobile Specialty Technicians • Electrical & Electronics Installers & Repairers • Electronic Equipment Installers & Repairers • Engine and Other Machine Assemblers 	<ul style="list-style-type: none"> • Master Automobile Service Technicians • Collision Repairers • Small Engine Repairers <p style="text-align: right;">*ONET Online</p>

Automobile Maintenance and Light Repair Pathway Description

Automobile service technicians and mechanics, often called service technicians or service techs, inspect, maintain, and repair cars and light trucks. To become a master automobile mechanic, students can complete the Automobile Maintenance & Light Repair pathway then take the end of pathway assessment in Automobile Maintenance & Light Repair offered by the National Institute for Automobile Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA. Students completing the Automobile Service Technician pathway may take the end of pathway assessment in Automobile Service Technology offered by the National Institute for Automobile Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA. Students completing the Master Automobile Service Technician pathway may take the end of pathway assessment in Master Automobile Service Technician offered by the National Institute for Automobile Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA.

Most automobile service technicians and mechanics work in well-ventilated and well-lit repair shops. Although mechanical problems can often be fixed with computers, technicians perform many tasks with greasy parts and tools, while sometimes in uncomfortable positions. Service technicians work on traditional mechanical components, such as engines, transmissions, belts, and hoses. However, they must also be familiar with a growing number of electro systems. Braking, transmission, and steering systems, for example, are controlled primarily by computers and electronic components. Other integrated electronic systems, such as accident-avoidance sensors, are becoming common as well. In addition, a growing number of technicians are required to work on vehicles that run on alternative fuels, such as ethanol and electricity.

Some employers prefer automobile service technicians and mechanics who have completed a formal training program in a postsecondary institution. Industry certification is usually required once the person is employed. Students may also consider state-registered apprenticeships for additional training after high school. <http://www.doleta.gov/oa/> Employment of automobile service technicians and mechanics is expected to grow 17 percent from 2010 to 2020, about as fast as the average for all occupations. Job opportunities for qualified jobseekers should be very good.