

# Automotive Technology I & II

(Hampton Campus) Course #8506/8507  
Transportation, Distribution & Logistics Cluster  
Two Year Program

College  
Credit  
Available

**Build**  
HAMPTON ROADS  
COLLEGE PREPARATION PROGRAM



**About the program:** In this program, students explore, handle, and perform basic functions in engine repair, automatic transmission and transaxle, manual drive trains and axles, suspension and steering systems, and brakes. Second-year students will build up their basic knowledge and learn about electrical, electronic, and HVAC systems in automobiles. Students who successfully complete the program may be eligible to take the ASE Student Certification examination. The ASE Student Certification is the first step in building a career as a service professional in the automotive industry. Summer mentorship opportunities are available in this program.

## Requirements/Expectations:

- Minimum GPA of 2.0 if seeking dual enrollment credit for this program
- Completion of 10th grade English with a grade of "C" or better
- Use mechanical tools, instruments, and computerized diagnostic devices
- Pass at least one ASE student-level certification
- Must possess a driver's license or permit- OJT required in 2nd year of the program
- Completion of Auto Tech I with a grade of "C" or better is required to return for AutoTech II

## Certifications:

- Automotive Service Excellence (ASE)
- Student Certifications Suspension & Steering, Manual Drive & Axles, Heating & Air Conditioning, Engine Repair, Engine Performance, Electronic/Electrical Systems, Brakes, Automatic Transmission/ Transaxle, Automotive Service Tech, and Maintenance & Light Repair

## Topics of study:

- Shop safety
- Automatic transmissions & transaxles
- Preparation of compounds & solution
- Engine Performance & Structural Repair
- Brakes
- Repair Analysis
- Electrical Systems & Heating/ Air Conditioning

## Career Pathways:

- Master Technician
- Service Manager
- Shop Owner
- Automotive Technician
- Aviation Mechanic
- NASCAR Mechanic