

C.A.S. Automotive Technology

This (41 credit) program provides students with the skills necessary for employment in the field of auto mechanics. At the conclusion of the one-year certificate, graduates may be employed as automotive service technicians or mechanics. They could also find employment in the retail/wholesale parts business. The median income for this field is \$35,790 per the US Department of Labor. This program has an Automotive Service Excellence (ASE) certified instructor.

Upon completion of this program, graduates will be able to:

- Test parts and systems to ensure that they are working properly
- Identify mechanical problems, often by using computerized diagnostic equipment
- Follow checklists to ensure that all critical parts are examined
- Test and lubricate the vehicle’s engine and other major components
- Disassemble and reassemble parts
- Perform basic care and maintenance, including oil changes, tune-ups, and tire rotations
- Repair or replace worn parts, such as brake pads and wheel bearings
- Use testing equipment to ensure that repairs and maintenance are effective
- Explain to clients their automotive problems and the repairs done on their vehicles

Program course requirements are presented in sequence. Part-time students and others who cannot follow this sequence should check [Course Descriptions](#) to determine pre-requisites and should consult their advisor regarding the order in which to take courses. [General Education Elective Courses](#).

Fall Semester	
AST 114/115 Automotive Brakes & Lab	2 and 2 credits
AST 136/137 Automotive Electrical Systems & Lab	2 and 2 credits
AST 172/173 Automotive Heating & Air Conditioning & Lab	3 and 1 credits
AST 220/221 Automotive Steering & Suspension & Lab	2 and 2 credits
COMX 111 Intro to Public Speaking, or COMX 115 Interpersonal Communication	3 credits
M 111 Technical Math	3 credits
Total	22 credits
Spring Semester	
AST 106/107 Automotive Manual Drive Train & Axles & Lab	1 and 2 credits
AST 270/271 Auto Transmissions/Transaxles & Lab	2 and 2 credits
AST 160/161 Automotive Engine Repair & Lab	2 and 2 credits
AST 164/165 Automotive Diagnostics and Tune Up & Lab	3 and 2 credits
WRIT 121 Intro to Technical Writing, or Written Communication elective	3 credits
Total	19 credits
Program Total	41 credits