Automotive Technology, AAS

Automotive technicians generally begin their careers in service departments or independent repair facilities continually expanding industrial and service career advancement opportunities. Technicians work with experienced professionals and have frequent contact with the public. This field requires good mechanical aptitude, manual dexterity in addition to written and verbal communication skills.

The two-year associate of applied science degree, which is accredited by the ASE Education Foundation covers all major areas, including engine performance, brakes, steering and suspension, electrical/electronic systems, heating and air conditioning, automatic transmissions, engines, manual transmissions, and drivelines. Students work on developing the skills needed to advance in their field as an automotive technician.

(Major Code 2420; CIP Code 47.0604)

Automotive Program web page (http://www.jccc.edu/academics/credit/automotive-technology/)

Associate of Applied Science Degree

First Semester

Code	Title	Hours
AUTO 114	Introduction to Automotive Practices	4
AUTO 129	Brakes I*	3
AUTO 131	Brakes II*	1
AUTO 156	Electrical I*	3
COMS 155	Workplace Skills	1
Humanities Elective ^		3
Total Hours		**15**

Second Semester

Code	Title	Hours
AUTO 150	Steering and Suspension I*	3
AUTO 151	Alignment Practicum*	1
AUTO 155	Automotive Engine Repair*	3
AUTO 161	Engine Performance I*	3
AUTO 162	Electrical II*	3
Social and Behavioral Sciences Elective ^		3
Total Hours		**16**

Third Semester

Code	Title	Hours
AUTO 205	Engine Performance II*	3
AUTO 207	Manual Drivetrains and Axles*	3
AUTO 214	Electrical III*	4
ENGL 121	Composition I*	3
MATH 120	Business Mathematics* (or higher)	3
	Note: Students transferring to 4-year programs should take MATH 171 College Algebra.	
Total Hours		**16**

Fourth Semester

Code	Title	Hours
Program Elective (see below)		3
AUTO 201	ASE Certification Review*	1
AUTO 211	Automotive Heating and Air Conditioning*	3
AUTO 215	Engine Performance III*	3
AUTO 252	Automatic Transmissions*	3

ENGL 123	Technical Writing I*	3
Total Hours		**16**

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Total Program Hours: 63

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Program Electives

Code	Title	Hours
AUTO 121	Small Engine Service	3
AUTO 237	Diesel and Hybrid Vehicles Maintenance and Light Repair*	3
AUTO 265	Comprehensive Vehicle Diagnosis*	3
AUTO 271	Automotive Technology Internship*	3
AUTO 291	Independent Study*	1-7

*   This course has registration requirements.
^   See all AAS general education electives (https://catalog.jccc.edu/archives/2024-25/degreerequirements/associate-applied-science/).