

# Automotive Technology, A.A.S.

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Automotive technicians generally begin their careers in service repair shops, with 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 and manual dexterity skills.

The two-year associate of applied science degree, which is certified by the ASE, covers all major areas, including diagnosis and tune-up, chassis, electrical/electronic and hydraulic systems, automatic transmissions, engines, and emissions. Students work on developing the skills needed to advance to a supervisory position, such as customer relations, estimating materials and labor costs, and managing the work of others.

(Major Code 2420; State CIP Code 47.0604)

- Automotive (<http://catalog.jccc.edu/automotive>)

## Associate of Applied Science Degree

### First Semester

AUTO 125	Introduction to Automotive Shop Practices	3
AUTO 129	Brakes I*	3
AUTO 131	Brakes II*	1
AUTO 156	Electrical I*	3
AUTO 145	Automotive Steering and Suspension*	4
ENGL 121	Composition I*	3
Total Hours		17

### Second Semester

INDT 125	Industrial Safety/OSHA 30	3
AUTO 166	Electrical II*	2
AUTO 161	Engine Performance I*	3
AUTO 165	Automotive Engine Repair*	4
INDT 155	Workplace Skills	1
Health and/or Physical Education Elective <sup>^</sup>		1
Humanities Elective <sup>^^</sup>		3
Total Hours		17

<sup>^</sup> Health and/or Physical Education Elective (<http://catalog.jccc.edu/fall/degreecertificates/electives/health-and-or-physical-ed-aas>)

<sup>^^</sup> Humanities Elective (<http://catalog.jccc.edu/fall/degreecertificates/electives/humanities-aas>)

### Third Semester

AUTO 208	Electrical III*	3
AUTO 205	Engine Performance II*	3
AUTO 209	Manual Drive Train and Axles*	4
ENGL 123	Technical Writing I*	3
MATH 120	Business Mathematics*	3
Total Hours		16

Note: Students transferring to 4 year programs should take MATH 171 College Algebra\*.

### Fourth Semester

Technical/Related Electives (see below)		3
AUTO 250	Automatic Transmissions and Transaxles*	4
AUTO 215	Engine Performance III*	3
AUTO 221	Heating and Air Conditioning*	4

Social Science and/or Economics Elective ^	3
Total Hours	17

^ Social Science and/or Economics Elective (<http://catalog.jccc.edu/fall/degrecertificates/electives/social-sci-econ-aas>)

### Technical/Related Electives

AUTO 120	Basic Automobile Operation and Maintenance	3
AUTO 121	Small Engine Service	3
AUTO 122	Introduction to Automotive Glass	3
AUTO 123	Motorcycle Maintenance and Repair	2
AUTO 128	Automotive Parts Specialist	2
AUTO 130	Diesel Fundamentals*	2
AUTO 201	ASE Certification Seminar	1
AUTO 210	Advanced Engine Repair*	3
AUTO 235	Hybrid & Alternative Fuels Vehicles Repair & Maintenance*	3
AUTO 271	Automotive Technology Internship*	3
AUTO 291	Independent Study*	1-7
ENTR 142	Fast Trac Business Plan	3

**Total Program Hours: 67**