

# Automotive Technology, AAS

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 accredited by the National Automotive Technicians Education Foundation (NATEF), 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 in their field as an automotive technician.

(Major Code 2420; State CIP Code 47.0604)

- Automotive (<http://www.jccc.edu/academics/transportation/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 165	Automotive Engine Repair*	4
ENGL 121	Composition I*	3
<b>Total Hours</b>		<b>17</b>

### Second Semester

INDT 125	Industrial Safety/OSHA 30	3
AUTO 166	Electrical II*	2
AUTO 161	Engine Performance I*	3
AUTO 150	Steering and Suspension I*	3
AUTO 151	Alignment Practicum*	1
INDT 155	Workplace Skills	1
Health and/or Physical Education Elective ^		1
Humanities Elective ^		3
<b>Total Hours</b>		<b>17</b>

^ See all AAS general education electives (<http://catalog.jccc.edu/degree/requirements/associate-applied-science>)

### 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* (or higher)	3
<b>Total Hours</b>		<b>16</b>

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
AUTO 201	ASE Certification Seminar	1

Social Science and/or Economics Elective ^	3
<b>Total Hours</b>	<b>18</b>

^ See all AAS general education electives (<http://catalog.jccc.edu/degree/requirements/associate-applied-science>)

## 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 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: 68**