

AUTOMOTIVE TECHNOLOGY, A.A.S.

Major Code: 0525

The Automotive Technology curriculum is designed to prepare graduates for the entry into the automotive/transportation service and repair industry.

The 50,000 square-foot and 12,000 square-foot automotive facilities provide an excellent opportunity for students to develop their skills in all automotive repair and service areas. Students receive practical laboratory experience in brakes/steering/ suspension, drive-trains, electrical, engine mechanical, engine performance, air conditioning, and basic auto body collision repair in addition to liberal arts courses.

The Automotive Technology program prepares students for an entry level position in the Automotive/Transportation field and provide the opportunity to complete ASE certifications. The program also prepares students to continue their education in a 4-year degree program. Students must maintain a GPA of 2.0 or greater in all automotive classes. Students must complete the A.A.S. degree with a minimum 2.0 grade point average to transfer into the Automotive Technology, B.Tech. program as a junior.

Program Requirement

Students are required to have a tool set and roll around toolbox.

Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate professionalism appropriate for the auto service industry
- Perform diagnosis, service and repair of automotive internal combustion engines
- Perform diagnosis, service, and repair of automotive electrical/electronic systems
- Perform diagnosis, service, and repair of automotive heating and air conditioning systems
- Describe and follow safety and environmental guideline standards for the auto service industry
- Perform diagnosis, service, and repair of automotive steering and suspension

Curriculum Requirements

A minimum of 60 credits is required for degree completion.

Code	Title	Credits
AUTO 102	Metals	3
AUTO 103	Internal Combustion Engines I	3
AUTO 104	Basic Auto Electrical Systems	3
AUTO 109	Chassis Analysis I	4
AUTO 110	Summer Work Experience	3
AUTO 138	Automobile Industry Awareness	1
AUTO 155	Intermediate Auto Electricity	3
AUTO 171	Automotive Drivetrains	3
AUTO 202	Autobody Fundamentals	3
AUTO 204	Automotive Electronic Systems	3

AUTO 205	Electronic Fuel Systems	3
AUTO 209	Chassis Analysis II	4
AUTO 255	Driveability & Performance Prob	5
or AUTO 259	Non-Structural Repair Refinish	
AUTO 261	Auto Air Condition & Heat	3
SUNY General Education Communication	Written & Oral as advised	3-6
PSYC 101	Introduction to Psychology	3
SUNY General Education Math	as advised	3
SUNY General Education Natural Science	as advised	3-4
SUNY General Education Diversity, Equity, Inclusion & Social Justice	as advised	3
Liberal Arts and Sciences Electives ¹		2-5

Total Credits **61-68**

1

Minimum 20 Liberal Arts and Sciences Credits

Suggested Course Sequence

Course	Title	Credits
Year 1		
Fall		
AUTO 102	Metals	3
or AUTO 103	or Internal Combustion Engines I	
AUTO 104	Basic Auto Electrical Systems	3
AUTO 109	Chassis Analysis I (fall only)	4
AUTO 138	Automobile Industry Awareness	1
SUNY General Education Math	as advised	3
Credits		14
Spring		
AUTO 102	Metals	3
or AUTO 103	or Internal Combustion Engines I	
AUTO 155	Intermediate Auto Electricity (spring only)	3
AUTO 209	Chassis Analysis II (spring only)	4
SUNY General Education Communication	as advised	3
SUNY General Education Natural Science	as advised	3-4
Credits		16-17
Year 2		
Fall		
AUTO 110	Summer Work Experience	3
AUTO 202	Autobody Fundamentals (fall only)	3
AUTO 204	Automotive Electronic Systems (fall only)	3
AUTO 205	Electronic Fuel Systems (fall only)	3
SUNY General Education Communication or DEISJ	as advised	3
PSYC 101	Introduction to Psychology	3
Credits		18
Spring		
AUTO 171	Automotive Drivetrains (spring only)	3
AUTO 255	Driveability & Performance Prob (spring only)	5
or AUTO 259	or Non-Structural Repair Refinish	
AUTO 261	Auto Air Condition & Heat	3
Liberal Arts and Sciences	as advised	2-5
Credits		13-16
Total Credits		61-65