

Automotive Technology

Program A4500
CIP 150803

Associate in Applied Science Degree

The Automotive Technology program introduces students to current automotive systems and related diagnostic and service techniques. Students learn on and about current automotive technology and its use in late model production vehicles. Learning occurs during classroom instruction and lab activities performed in the auto shop. In addition, students develop a strong work ethic and learn professionalism while fulfilling internship requirements at their sponsoring repair facility.

The A.A.S. program offers two paths of study that students may choose from: Chrysler CAP (College Automotive Program) and Comprehensive.

CAP students complete Chrysler-specific course material and secure a position at a Chrysler, Dodge, or Jeep dealership as an apprentice technician.

Students following the Comprehensive path learn theory, operation, diagnosis, and service of systems not specific to any particular vehicle manufacturer, and complete internship requirements at an approved independent, franchise, or dealership repair facility.

Successful graduates of the program will be able to:

- diagnose, repair, and service current automotive technologies;
- demonstrate desirable attitudes and work habits while working individually or with others;
- obtain service repair information and procedures from online websites and electronic databases;
- communicate effectively and professionally with customers and fellow technicians.

Admission to the program requires a high school diploma or its equivalent and a strong interest in a career in automotive technology. Admission is competitive and determined by basic skill levels, program-specific testing, and a personal interview with program representatives. Academic foundations requirements should be completed before starting automotive classes.

The program may be completed in two years, beginning in the Fall semester and with Summer session attendance required each year. Instruction is organized in a concentrated two-day / three-day session format. Students attend the automotive classes Mondays and Wednesdays or Tuesdays and Thursdays, completing academic support classes in the afternoon or evening. Each session includes an eight-week internship at a dealership or approved repair facility.

The automotive classes meet at the Assunpink Campus of the Mercer County Technical Schools, across from MCCC's West Windsor campus on Old Trenton Road.

Curriculum

Code	Course (lecture/lab hours)	Credits
AUT 110	Introduction to Automotive Electronics (3/1)	3
AUT 111	Automotive Service Fundamentals (2/6)	5
ENG 101	English Composition I (3/0)	3
AUT 112	Automotive Fuel Systems (2/2)	3
AUT 113	Suspension, Steering and Alignment (2/4)	4
MAT 140	Applied College Algebra (4/0) ¹	4
AUT 122	Internship in Automotive Technology I	1
AUT 211	Automotive Emissions and Driveability Diagnosis (2/2)	3
AUT 212	Automotive Air Conditioning (2/2)	3
ENG 112	English Composition II with Speech (3/0)	3
AUT 115	Automotive Brake Systems (2/4)	4
AUT 114	Automotive Electricity and Electronics (2/2)	3
AUT 123	Internship in Automotive Technology II	1
HPE 110	Concepts of Health and Fitness (1/2)†	2
—	General Education elective ²	3
AUT 213	Engine Service (2/4)	4
AUT 221	Internship in Automotive Technology III	1
AUT 224	Manual Transmissions and Drivelines (2/3)	3
PHY 111	Physical Science Concepts (2/2)	3
AUT 222	Internship in Automotive Technology IV	1
AUT 225	Automatic Transmission Service (2/3)	3
IST 101	Computer Concepts with Applications (2/2) OR	3
IST 102	Computer Concepts with Programming (2/2)	3
—	General Education elective ³	3
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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

¹ Or higher-level mathematics course.

² Select course from either Social Science or Humanities general education categories.

³ Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

†HPE 111 is an acceptable alternative.

