

Applied Science and Engineering Technology Division

2020-2021

Credits

21

The associate of applied science degree with specialization in automotive service technology is structured to provide the technical knowledge and mechanical abilities necessary to work on the vehicles of yesterday, today and the future. Today's vehicles are highly complex feats of engineering. Technicians need a wide array of skills and knowledge to diagnose. repair and maintain these vehicles. Automotive service technicians have the opportunity to work on hydraulic systems (brakes and transmissions), mechanical systems (engines and steering), computer systems (modules and networks) and electrical systems (entertainment and lighting). All of these systems work together to ensure the safety and comfort drivers rely on. The automotive service technician makes use of various mechanical and electrical test instruments and gauges, including scan tools, oscilloscopes, pressure gauges, pneumatic tools and hand tools. The curriculum is planned to prepare the graduate to perform duties concerned with diagnosis, repair and maintenance of motor vehicles. Graduates of this program will be prepared for entry-level employment in the following areas:

- Dealership service technician
- Factory technical representative
- Independent service technician
- Service engineer
- Service writer

Students desiring to earn the automotive service technology program designation must complete the following general education and required core and specialized courses:





Note: The following codes identify courses that satisfy MCCC's General Education Requirements:

- (C1) GE Natural Sciences Competency
- (C2) GE Mathematics Competency
- (C3) GE Writing Competency
- (C4) GE Computer Literacy Competency
- (C5) GE Human Experience Competency
- (C6) GE Social Systems Competency

Required General Education Courses

* MDTC 160 (Mechanical Drafting and CAD I) can be replaced by CIS 130 (Introduction to Computer Information Systems).

See the General Education Requirements on the MCCC website for a list of courses that satisfy the General Education Learning Competencies.

	Credits
Required Core Courses	37
1 st Semester	
AST 101 (Introduction to Automotive Service) AST 102 (Electrical Systems I)	4
2 nd Semester	
AST 103 (Electrical Systems II) AST 120 (Brake Systems) AST 125 (Steering and Suspension)	4
Summer Semster	
AST 130 (Heating and Air Conditioning)	4
3 rd Semester	
AST 202 (Engine Performance I) Restricted Elective Option**	4
4th Semester	
AST 203 (Engine Performance II) Restricted Elective Option**	4
AST 249 (Work Experience)	3

....



Credits Restricted Electives (choose 1)** AST 205 (Engine Repair) 5 AST 210 (Manual Transmission and Driveline Repair) 5 AST 211 (Automatic Transmission Repair) 5 Total Degree Requirements 63 credits Total Degree Cost 87 minimum billable contact hours

** Designates elective course (choose only 1-option 3rd or 4th semester). AST 210 (Manual Transmission and Driveline Repair) or AST 211 (Automatic Transmission Repair) to be offered alternatively in Fall semester of each year. AST 205 (Engine Repair) to be offered in the Winter semester.

Certificate Program: Automotive Service Technology

In addition to the two-year associate degree program, Monroe County Community College offers a certificate program in automotive service technology. The basic core subjects of automotive repair are covered in these courses. Skill development and job procurement are the primary objectives of this program, and all courses taken in this certificate program are applicable toward the associate of applied science degree.

Required Core Courses for
General Automotive Service CertificateCreditsAST 101(Introduction to Automotive Service).3AST 102(Electrical Systems I)4AST 120(Brake Systems).4AST 103(Electrical Systems II)4AST 125(Steering and Suspension).4AST 130(Heating and Air Conditioning)4

Total Certificate Requirements23 creditsTotal Certificate Cost37 minimum billable
contact hours

Information contained within this document is subject to change. This program sheet may not be considered as an agreement or contract.

Monroe County Community College is an equal opportunity institution and adheres to a policy that no qualified person shall be discriminated against because of race, color, religion, national origin or ancestry, age, gender, marital status, disability, genetic information, sexual orientation, gender identity/expression, height, weight or veteran's status in any program or activity for which it is responsible. If you have a disability and need special accommodations, please contact the Student Success Center (734.384.4167) at least 10 business days prior to the first class session to begin the accommodation process.

The college's Equal Opportunity Officer and Title IX and Section 504/ADA Coordinator and Compliance Officer for discrimination and sexual harassment is the Director of Human Resources,

Monroe County Community College, 1555 South Raisinville Road, Monroe, Michigan 48161, 734.384.4245.

Monroe County Community College is accredited by the Higher Learning Commission, www.hlcommission.org, 800.621.7440.

Main Campus

1555 South Raisinville Road Monroe, Michigan 48161 734-242-7300 / 1-877-YES-MCCC

www.monroeccc.edu

Whitman Center 7777 Lewis Avenue Temperance, Michigan 48182 734-847-0559

Admissions: 734-384-4104



enriching lives