

Automotive Technician (Technical Diploma)

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals to engage in the servicing and maintenance of all types of automobiles at the entry level. The program prepares the individual to select, safely use, and maintain hand and power tools, jacks, and hoisting equipment. Instruction in the diagnosis of malfunctions and the repair of engines; fuel, electrical, cooling, and brake systems; drive train; and suspension systems are included. The competencies in the Automotive Technology program are directly correlated with the knowledge required to prepare an individual for the certification test given by the **National Institute for Automotive Service Excellence (ASE)**. The content is organized into competency-based courses of instruction that specify occupational competencies the individual must successfully complete according to the priorities for tasks established by the **ASE Education Foundation**.

A Certificate of Technical Studies (CTS) may be earned each semester, and the Automotive Technician Technical Diploma (TD) may be earned upon completion of all technical courses. Students also have the option to complete the Vehicle Maintenance and Repair Technologies Associate of Applied Science with a concentration in Automotive Technology by completing General Education courses in addition to the technical courses.

To receive an Automotive credential, the student must:

- Have a cumulative GPA of 2.00 or better in all credit hours that are to be used towards the degree
- Earn a “C” or better in all MVSB and AUTO courses
- Earn an “S” (Satisfactory) in AUTO 1152 and AUTO 1252

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Demonstrate the skills needed for entry and advanced levels of employment in an automotive technology career.
2. Engage in the servicing and maintenance of all types of automobiles.
3. Demonstrate the appropriate selection, safe use, and maintenance of hand and power tools, jacks, and hoisting equipment.
4. Demonstrate the diagnosis of malfunctions and repair of engines, fuel, electrical, cooling, brake systems, drive train, and suspension systems.
5. Demonstrate knowledge needed to pass the certification exams given by the National Institute for Automotive Service Excellence (ASE).
6. Demonstrate safe and efficient work practices, basic occupational skills, employability skills, and strong work ethics.

Program of Study

First Semester		Credit Hours
MVSB 1002	Fundamentals of Safety	2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Essentials	4
AUTO 1404	Steering and Suspension Systems	4
AUTO 1504	Brake Systems	4
Semester Total:		17
Second Semester		Credit Hours
AUTO 1204	Automatic Transmission Systems	4

AUTO 1304	Manual Drivetrain and Axles	4
AUTO 1103	Engine Design	3
AUTO 1614	Automotive Advanced Electrical	4
AUTO 1152	Automotive Internship I	2
Semester Total:		17

Third Semester		Credit Hours
MVSB 1703	Heating and Air Conditioning	3
AUTO 1806	Engine Performance	6
AUTO 1252	Automotive Internship II	2
Semester Total:		11

Total Program Credit Hours: 45

Automotive Credentials Available:

		Credit Hours
MVSB 1002	Fundamentals of Safety	2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Basic	4
AUTO 1404	Suspension and Steering Systems	4
AUTO 1504	Brake Systems	4
CTS: Suspension, Steering, and Brakes Technician		17

		Credit Hours
MVSB 1002	Fundamentals of Safety	2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Basic	4
MVSB 1703	Heating and Air Conditioning	3
AUTO 1103	Engine Design	3
AUTO 1204	Automatic Transmission Systems	4
AUTO 1304	Manual Drivetrain and Axles	4
AUTO 1404	Steering and Suspension System	4
AUTO 1504	Brake Systems	4
AUTO 1614	Automotive Advanced Electrical	4
AUTO 1806	Engine Performance	6
AUTO 1152	Automotive Internship I	2
AUTO 1252	Automotive Internship II	2
TD: Automotive Technician		45

Students interested in pursuing the Vehicle Maintenance and Repair Technologies Associate of Applied Science degree with a concentration in Automotive Technology should contact the Technical Education Division at 225-216-8367 for more information.