

AUTOMOTIVE TECHNOLOGY: GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATIONAL PROGRAM (GM ASEP) (A.S.)

ASSOCIATE OF SCIENCE

The General Motors Automotive Service Educational Program (GM ASEP) prepares students for employment as an entry-level automotive technician at a General Motors (GM) dealership. Courses focus on both the mechanical and electrical systems within a vehicle and how to diagnose and repair them. First year courses include fundamentals, braking systems, electrical/electronics, engine repair, engine performance, and suspension and steering. Second year courses include manual drivetrain and axle, HVAC, light duty diesel systems, automatic transaxle/transmission, HVAC, advanced engine performance, and hybrid and electric vehicle technology. Students will also increase their hands-on skills and experience by working in the field. Graduates are employed as entry-level technicians at GM dealerships and have the ability to work as a bumper-to-bumper technician or as a specialized automotive repair technician.

Program Student Learning Outcomes

- Demonstrate safe practices when working on all types of vehicles.
- Analyze service information in order to diagnose and repair vehicle faults.
- Practice repairing faults related to maintenance and light repair (MLR), engine repair, automatic transmission/transaxle, manual drivetrain and axle, suspension and steering, brakes, electrical/electronics, HVAC, engine performance, hybrid and electric vehicle technology, and light duty diesel systems.

Program Requirements

Code Number	Course Title	Units
Required Courses		
First Semester		
AUTO 200	General Motors Fundamentals	3.0
AUTO 205	General Motors Braking Systems	3.0
AUTO 206	General Motors Electrical Systems 1	3.0
Second Semester		
AUTO 201	General Motors Engine Repair	3.0
AUTO 204	General Motors Suspension and Steering Systems	3.0
AUTO 208	General Motors Engine Performance 1	3.0
AUTO 173	Automotive Technology Work Experience Education	3.0
Third Semester		
AUTO 216	General Motors Electrical Systems 2	3.0
AUTO 173	Automotive Technology Work Experience Education	3.0
Fourth Semester		
AUTO 203	General Motors Manual Drivetrain and Axle	3.0

AUTO 207	General Motors HVAC Systems	3.0
AUTO 209	General Motors Diesel Technology	3.0
AUTO 173	Automotive Technology Work Experience Education	3.0
Fifth Semester		
AUTO 202	General Motors Automatic Transaxle/Transmission	3.0
AUTO 218	General Motors Engine Performance 2	3.0
AUTO 226	General Motors Electrical Systems 3	3.0
AUTO 173	Automotive Technology Work Experience Education	3.0
Total Units		51

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

Complete a minimum of 60 units to include the above requirements, the Associate of Science Degree requirements, General Education requirements, and electives as needed.

Recommended Electives

Code Number	Course Title	Units
WELD 100	Welding Fundamentals	2.5
MTT 100	Machine Tool Introduction	2.0