

AUTOMOTIVE TECHNOLOGY: GENERAL MOTORS ADVANCED (CERT)

CERTIFICATE OF ACHIEVEMENT

The General Motors Advanced Certificate option 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. They include manual drivetrain and axle, HVAC, light duty diesel systems, automatic transmission/transaxle, 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 dealers 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 manual drivetrain and axle, HVAC, light-duty diesel systems, automatic transmission/transaxle, advanced engine performance, and hybrid and electric vehicle technology.

Program Requirements

| Code Number | Course Title | Units |
|-------------------------|---|-----------|
| Required Courses | | |
| First 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 |
| Second 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 | | 24 |