

# AUTOMOTIVE TECHNOLOGY

CAREER CLUSTER: TRANSPORTATION, DISTRIBUTION & LOGISTICS

STATEWIDE PROGRAM OF STUDY: AUTOMOTIVE & COLLISION REPAIR

Course	Credits	Class Periods	Grade	Location
Automotive Technology I & Auto Basics	3.0	3	11-12	MCTC
Automotive Technology II <i>Prerequisites: Automotive Technology I &amp; Automotive Basics</i>	3.0	3	12	MCTC

## CERTIFICATION OPPORTUNITIES

- Multiple Automotive Service Excellence (ASE) Student certifications



## CAREER POSSIBILITIES

- Detailer
- Maintenance Technician
- Master Technician
- Parts Manager
- Service Advisor
- Service Manager
- Shop Foreman
- Technical Trainer



## 8700V AUTOMOTIVE TECHNOLOGY I MAINTENANCE & LIGHT REPAIR

**Grades: 11-12    2 credits - taken concurrently with Automotive Basics**

## 8707V AUTOMOTIVE BASICS

**Grades: 11-12    1 credit - taken concurrently with Automotive Technology I Maintenance & Light Repair**

**Automotive Basics** provides an introduction to the automotive industry and focuses on safety and environmental rules and regulations, tool identification, proper tool use and employability skills. After passing a safety course in **Automotive Technology I**, students learn how to perform basic vehicle maintenance, including oil changes and brake jobs. They also learn how to perform diagnostic tests to determine vehicle issues.

## 8715V AUTOMOTIVE TECHNOLOGY II/LAB-AUTOMOTIVE SERVICE

**Grade: 12    3 Credits**

*Prerequisites: Automotive Technology I and Automotive Basics*

This course provides a more in-depth, practical application of previously learned knowledge and skills through classroom and shop settings. Students will further their knowledge of vehicle maintenance and learn how to run advanced diagnostic tests on computer-controlled systems, including anti-lock brake systems, traction control systems, and powertrain control modules. Students will perform wheel alignments and continue to diagnose and service customer vehicles in the shop.

## PROGRAM EXPERIENCES

Students will develop knowledge of the operation, repair, and maintenance of motor vehicles including preventive maintenance, brakes, electronics, HVAC, drive trains, engine performance, suspension systems and tires.

They receive hands-on experience in The Garage at Miller, while working on vehicles brought in by clients from the community. Students may also have the opportunity to visit various dealerships and tour their service areas.

## EXPECTATIONS OF STUDENTS

- Work both independently and as a team to complete projects.
- Display professional behavior in the classroom and auto shop.
- Show willingness to learn theory before going into the auto shop for hands-on training.
- Pass online safety tests before entering the shop area.

