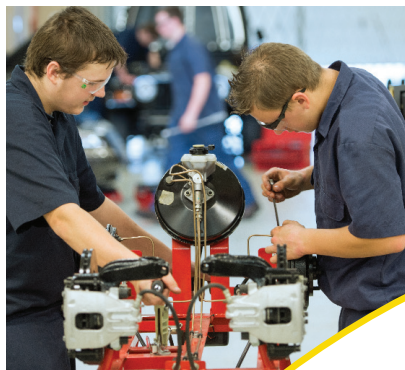
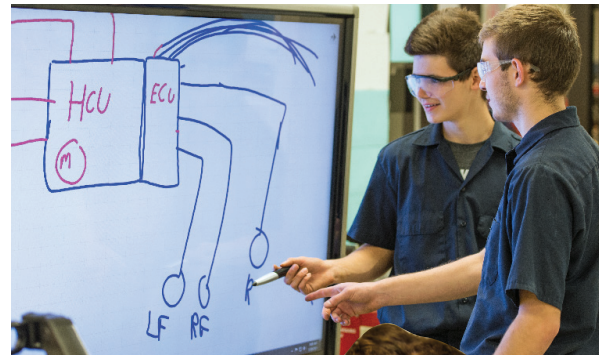


Automotive Technology – Mechanics

greatoaks.com/automechanics



Automotive Technology – Mechanics

Available at: Diamond, Laurel, Live, Scarlet

COURSES

Ground Transportation Maintenance*

In this first course, students will apply skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins and perform maintenance on vehicles. Students will inspect and service engine, drive train, suspension, steering, electrical and braking systems. Students will perform ignition maintenance including spark plug/glow plug and ignition wire and coil pack replacement. Additionally, students will change fluids and filters and inspect vehicles for leaks and fluid condition.

Automotive Braking, Suspension and Steering Systems

Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.

Ground Transportation Electrical/Electronic

Student will diagnose and repair vehicle electrical systems including chassis electrical, charging, starting and lighting systems. Students will learn the fundamentals of direct current (DC) electronics including series, parallel, and series-parallel circuits. Students will use electronic diagnostic tools, read schematics, and utilize printed and electronic repair manuals to troubleshoot electrical circuits, test components and replace defective modules.

Automotive Engine Performance

Students will research vehicle service histories using model specific service bulletins. Students will test and diagnose for engine performance in fuel, air induction and exhaust systems using advanced testing procedures. Topics include computerized engine controls including retrieving and recording diagnostic trouble codes using On Board Diagnostics (OBD). Additionally, students will diagnose drivability and emissions problems resulting from malfunctions of interrelated systems.

**These courses are eligible for college credit under the Career-Technical Assurance Guide (CTAG).
For more information about what CTAG is: ohiohighered.org/transfer/ct2/earning-college-credit
To learn what credit is currently available at Ohio colleges and universities: transfercredit.ohio.gov/pg_9?9915099094718*

CREDENTIALS YOU CAN EARN

- ASE Student Certifications
- ASE Maintenance and Light Repair
- EPA Refrigerant Recovery and Recycling
- CPR/First Aid

INSTRUCTORS

- Diamond Oaks: Mark Chafin – chafinm@greatoaks.com
- Laurel Oaks: Greg Stonehill – stonehig@greatoaks.com
- Live Oaks: Charles Overbee – overbeec@greatoaks.com
- Scarlet Oaks: Ennio Braida – braidae@greatoaks.com

Courses subject to change