

# ADVANCED ELECTRICAL AUTOMOTIVE

## Certificate

<http://www.sandburg.edu/Academics/Degree-Certificates/Advanced-Electrical-Automotive/index.html>

Carl Sandburg College offers a one-semester certificate program in Advanced Electrical Automotive to provide further training to support students in advancing their opportunities in the auto-tech industry. Graduates will learn about more complex systems such as anti-lock brakes, traction, electrical systems, switches and sensors, powertrain and emissions control systems and high voltage electrical systems.

### Nature of the Work

The work of automotive service technicians and mechanics has evolved from simply mechanical to high technology. Technicians must have an increasingly broad base of knowledge about how vehicles' complex electronic components work and interact, as well as the ability to work with electronic diagnostic equipment and computer-based technical reference materials. Automotive service technicians and mechanics use these high tech skills to inspect, maintain, and repair vehicles. The ability to diagnose the source of a problem quickly and accurately requires good reasoning ability and a thorough knowledge of automobiles. Many technicians consider diagnosing hard-to-find troubles one of their most challenging and satisfying duties.

### Employment

Job opportunities for those individuals who complete automotive training programs are expected to be very good. Persons with good diagnostic and problem-solving skills should have the best opportunity. For well-prepared people with a technical background, automotive service technicians careers offer an excellent opportunity for good pay and secure employment. To learn more about the admission requirements and the application process for this program, call 309.345.3500.

### Admission to the Program: Open

#### First-Time Enrollees:

1. Complete an application for admission and, if desired, apply for financial aid
2. Must have an Automotive Technology certificate or degree and two years of work experience; or three years of work experience.
3. Meet with an advisor/counselor to select classes and complete the registration process.

### Department of Career Technical & Health Education

2400 Tom L. Wilson Blvd.  
Galesburg, IL 61401  
Phone: 309.341.5363

### For Additional Information Contact:

The Welcome Center  
Phone: 309.345.3500  
[welcomecenter@sandburg.edu](mailto:welcomecenter@sandburg.edu)

### For Graduation Requirements:

See the graduation policies and procedures ([http://catalog.sandburg.edu/academicinformation/#graduation\\_policies\\_and\\_procedures](http://catalog.sandburg.edu/academicinformation/#graduation_policies_and_procedures)) page for details.

Course	Title	Semester Hours
<b>First Year</b>		
<b>Fall Semester</b>		
AUT.215	Advanced Braking & Chassis Control	3
AUT.220	Advanced Electrical Systems	3
AUT.225	Adv Emissions & Powertrain Control	4
AUT.230	Automotive High Voltage Safety & System	3
Total Semester Hours		13

### Wright, Larry E

associate professor, automotive technology

### Higgins, Diana D

associate dean of career technical health education

The Advanced Electrical Automotive program is located in Building B. It's facilities include classroom space, faculty offices, and an automotive bay that functions as a full-service automotive shop.