

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

For Graduation Requirements:

See the graduation policies and procedures (http://catalog.sandburg.edu/academicinformation/#graduation_policies_and_procedures) page for details.

| Course | Title | Semester Hours |
|----------------------|---|----------------|
| First Year | | |
| Fall Semester | | |
| 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 |

Larry E. Wright

Associate Professor, Automotive Technology

Carrie Hawkinson

Associate Dean of Career, Technical, and 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.