

# AUTOMOTIVE TECHNOLOGY

## Certificate

Carl Sandburg College offers a two-semester certificate program in Automotive Technology providing students with the basic skills to gain employment in automotive dealerships, automotive technology centers, and independent service centers.

### 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.

### Working Conditions

Almost half of automotive service technicians work a standard 40-hour week, but about one third work over 40 hours per week. Many of those working over 40-hour weeks are self-employed technicians. Some shops offer evening and weekend service to meet the needs of their customers. Generally, service technicians work indoors in well ventilated and lighted repair shops.

### 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. Send an official high school transcript or GED score report to the Admissions and Records Office.
3. Complete the placement exam.
4. 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](http://catalog.sandburg.edu/academicinformation/#graduation_policies_and_procedures)) page for details.

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Course	Title	Semester Hours
<b>First Year</b>		
<b>Fall Semester</b>		
AUT.101	Spark Ignition Engines 1	3
AUT.105	Electrical Systems	3
AUT.201	Ignition Systems	3
AUT.107	Shop Practices 1	4
AUT.110	Auto Math	2
<b>Spring Semester</b>		
AUT.103	Braking Systems	2
AUT.202	Steering Suspension & Front Wheel Dr	3
AUT.203	Manual Transmission & Dr Trains	2
AUT.204	Automatic Transmissions	3
AUT.206	Heating and Air Conditioning	2
AUT.209	Shop Practices 2	2
Total Semester Hours		29

#### Larry E. Wright

Associate Professor, Automotive Technology

#### Carrie A. Hawkinson

Associate Dean of Career, Technical, and Health Education

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