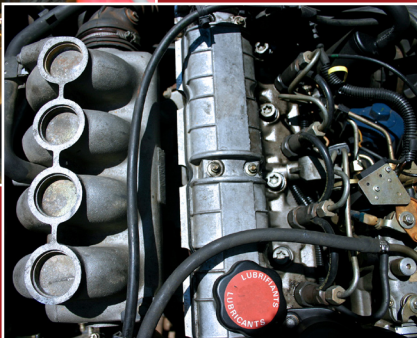


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AUTOMOTIVE TECHNOLOGY



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Automotive Technology

The work of automotive service technicians and mechanics has evolved from mechanical repair to a high technology job. As a result, these workers are now usually called “technicians” in automotive services and the term “mechanic” is falling into disuse. Today, integrated electronic systems and complex computers run vehicles and measure their performance while on the road. Technicians must have an increasingly broad base of knowledge about how vehicles’ complex components work and interact, as well as the ability to work with electronic diagnostic equipment and computer-based technical reference materials.

Automotive service technicians use their high-tech skills to inspect, maintain, and repair automobiles and light trucks that run on gasoline, ethanol and other alternative fuels, such as electricity. The increasing sophistication of automotive technology now requires workers who can use computerized shop equipment and work with electronic components while maintaining their skills with traditional hand tools.

Computers also have become commonplace in modern repair shops. Service technicians use readouts from computerized diagnostic testing devices. A shop’s computerized system provides automatic updates to technical manuals and unlimited access to manufacturers’ service information, technical service bulletins, and other databases which allow technicians to keep current on problem spots and to learn new procedures.

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

A two-year program which leads to an Associate in Applied Science Degree, this curriculum is based on Automotive Service Excellence (ASE) standards designed to prepare the student for certification in the automotive industry. The Automotive Technology program qualifies for Master Certification from the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence. Upon completion, the student has the option to capstone into a participating four-year institution. ■ **Total = 69 Hours**

First Semester		Cr. Hrs.
AUTO 1202	Engine Repair	5
AUTO 1231	Intro to Automotive Technology	2
AUTO 1232	Electrical Systems A	3
ENGL 1101	Rhetoric and Composition I ¹	3
	Elective – General Education	<u>3</u>
		16

Second Semester		Cr. Hrs.
AUTO 1235	Engine Performance A	5
AUTO 1240	Air Conditioning	3
AUTO 1245	Braking Systems	4
COMM 1101	Principles of Effective Speaking	3
MATH	Elective – Math ¹	<u>3</u>
		18

Third Semester		Cr. Hrs.
AUTO 2230	Electrical Systems B	3
AUTO 2235	Engine Performance B	5
AUTO 2245	Suspension and Steering	4
HEA 1101	Health Education	2
HEA 1102	or Basic First Aid	<u>2</u>
	Elective – General Education ²	<u>3</u>
		17

Fourth Semester		Cr. Hrs.
AUTO 1210	Supervised Occupational Exp.	2
AUTO 2214	Automatic Trans / Transaxle	5
AUTO 2215	Manual Drive Train and Axles	5
AUTO 2232	Engine Performance C	3
AUTO 2250	Automotive Computer Electronics	<u>3</u>
		18

AUTOMOTIVE TECHNOLOGY

Occupational Certificate

■ **Total = 52 Hours**

First Semester		Cr. Hrs.
AUTO 1202	Engine Repair	5
AUTO 1231	Intro to Automotive Technology	2
AUTO 1232	Electrical Systems A	<u>3</u>
		10

Second Semester		Cr. Hrs.
AUTO 1235	Engine Performance A	5
AUTO 1240	Air Conditioning	3
AUTO 1245	Braking Systems	<u>4</u>
		12

Third Semester		Cr. Hrs.
AUTO 2230	Electrical Systems B	3
AUTO 2235	Engine Performance B	5
AUTO 2245	Suspension and Steering	<u>4</u>
		12

Fourth Semester		Cr. Hrs.
AUTO 1210	Supervised Occupational Exp.	2
AUTO 2214	Automatic Trans / Transaxles	5
AUTO 2215	Manual Drive Train and Axles	5
AUTO 2232	Engine Performance C	3
AUTO 2250	Automotive Computer Electronics	<u>3</u>
		18

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Students who complete either of these programs as listed also will earn the following occupational certificates:

- Automotive Air Conditioning
- Automotive Brake
- Automotive Electrical
- Automotive Engine Repair
- Automotive Suspension & Steering
- Automotive Transmission

¹ Prerequisite course(s) may be required based on results of COMPASS, ASSET, ACT or SAT scores.
² Consult Advisor for choices to consider for transfer / other options.
 NOTE: Any student who has not previously met state requirements concerning the Illinois and Federal Constitution must take either HIST 2101, POLI 1101 or POLI 2101.

JOB OUTLOOK

Job opportunities in this occupation are expected to be very good for persons who complete this program as employers report difficulty in finding workers with the right skills. According to the Bureau of Labor Statistics, people with good diagnostic and problem-solving abilities, and whose training includes basic electronics and computer courses, should have the best opportunities. For well-prepared people with a technical background, automotive service technician careers offer an excellent opportunity for good pay and the satisfaction of highly skilled work with vehicles incorporating the latest in advanced technology.

FINANCIAL AID

Many different financial aid packages are available to RLC students, including a limited number of tuition waivers available to individuals in the Automotive Technology program. Prospective students are encouraged to check with their faculty advisors / counselors or the RLC Financial Aid office for more information.

FOR MORE INFORMATION, PLEASE CONTACT:

REND LAKE COLLEGE Applied Science & Technology Division

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