



EAST CENTRAL COLLEGE

AUTOMOTIVE TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATE

East Central College

1964 Prairie Dell Road
Union, Missouri 63084
636-584-6500
www.eastcentral.edu

Admissions Office

ECC Campus
636-584-6563
admissions@eastcentral.edu

Program Contact

Student Services Call Center
636-584-6563
admissions@eastcentral.edu

Program Location

Four Rivers Career Center
1978 Image Drive
Washington, Missouri 63090
636-239-0598

Program Faculty

Gary Maune
636-239-0598
Gary.Maune@
washington.k12.mo.us

Dan Brinkmann
636-239-0598
Dan.Brinkmann@washington.
k12.mo.us

East Central College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools
30 N. LaSalle St., Suite 2400
Chicago, Illinois 60602-2504
800-621-7440

THE CAREER

Automotive service technicians and mechanics inspect, maintain and repair automobiles and light trucks that run on gasoline, electricity or alternative fuels, such as ethanol. The responsibilities of these professionals have evolved from simple mechanical repairs to high-level technology-related work.

The increasing sophistication of automobiles requires workers to be versatile with a variety of systems and tools. They need to be able to use computerized shop equipment and work with electronic components while also maintaining their skills with traditional hand tools.

PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Have mechanical aptitude and a working knowledge of automobiles
- Be able to diagnose the source of a problem quickly and accurately
- Have strong communication and analytical skills
- Possess solid reading, mathematics and computer skills

EMPLOYMENT AND SALARY INFORMATION

The automotive service profession is experiencing about average growth, per the U.S. Bureau of Labor Statistics. By 2022, the number of positions is expected to increase by 9 percent.

Median hourly earnings for automotive service technicians and mechanics, including commission, were \$17.60 in May 2012. The median hourly rate in the industries employing the largest numbers of these workers were as follows:

Local government, excluding schools	\$22.71
Automobile dealers	\$19.88
Automotive repair and maintenance	\$15.97
Automotive parts, accessories and tire stores	\$15.02
Gasoline stations	\$14.94

THE PROGRAM

The East Central College Automotive Technology program is recognized as an Automotive Service Excellence (ASE) certified program. It is offered at the ECC Washington site in partnership with Four Rivers Career Center.

Students enrolled in the program gain a solid understanding and working knowledge of the automotive industry. They study automotive technology, with emphasis on lab demonstrations while working in the well-equipped shop area.

Students are given hands-on mechanical training from the very start, progressing from basic systems to the more complex. They first work on bench units before moving on to live engines on stands, live cars belonging to the program and finally consumer automobiles.

New students must enroll in the fall and should plan on attending full-time, choosing either a morning or afternoon time block. Students currently in high school can choose to articulate coursework to the AAS degree program and continue with the general education block of coursework at ECC.

ADMISSIONS REQUIREMENTS

Students must have completed:

- ✓ High school diploma or the equivalent (documentation must be sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (please note: some coursework requires minimum placement results)

TRANSFER OPTIONS

The AAS degree is designed for students seeking employment immediately upon graduation. However, many of the credits, particularly the general education electives received with this degree, may qualify as transfer credit at four-year schools.

These decisions are made solely by the bachelor degree-granting institution, not ECC. Students seeking to transfer are advised to contact the institution of their choice before beginning a program or reviewing other degrees and coursework offered through East Central College.

■ **ROLLA**
573-466-4100

■ **SULLIVAN**
573-468-8287

■ **UNION**
636-584-6588

■ **WASHINGTON**
636-239-0598

WWW.EASTCENTRAL.EDU

AUTOMOTIVE TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATE

PROGRAM OF STUDY

New students must begin in the fall. Students should plan on attending full-time and can choose from a morning or afternoon time block of automotive technology classes. Course schedule is subject to change. Please review the online college schedule at www.eastcentral.edu for the most current academic offerings.

A- Course that is also part of the Certificate of Achievement program

YEAR 1

FALL SEMESTER

COURSE		HOURS
FS 1000	Campus Orientation/	
FS 1001	Foundation Seminar	1
AT 1001	Introduction to Automotive Technology ^A	1
AT 1004	ASE Brakes ^A	4
AT 1043	ASE Suspension/ Steering ^A	3
EN 1223	English Comp I or	
EN 1233	Honors English Comp I	3
MT 1083	Applied Algebra & Trigonometry or	
MT 1303	Intermediate Algebra	3
Total Hours		15

SPRING SEMESTER

COURSE		HOURS
AT 1063	ASE Manual Drive ^A	3
AT 1082	Auto Transmission/Transaxel ^A	2
AT 1104	ASE Engine Repair ^A	4
EN 1403	Technical Writing	3
	PE Requirement	1
	Program Elective	3
Total Hours		16

YEAR 2

FALL SEMESTER

COURSE		HOURS
AT 2038	ASE Electrical Systems ^A	8
HI 1000/		
PS 1000	Constitutions Study Module	0
	History or Political Science Requirement	3
	Science Requirement (BI)	3
	Program Elective	3
Total Hours		17

SPRING SEMESTER

COURSE		HOURS
AT 2057	ASE Engine Performance ^A	7
AT 2071	Heating & Air Conditioning (Auto) ^A	1
BU 2881	Business & Industry Capstone ^A	1
	Communications Requirement (CT)	3
	Program Elective	3
	Program Elective	3
Total Hours		18