

# AUTOMOTIVE TECHNOLOGY, Associate in Applied Science Degree - 4480

Engineering & Technology Department

The Automotive Technology AAS program serves the needs of high school and career and technology school graduates as well as persons already employed in the industry. Students must complete a 480-hour co-operative work experience at an approved automotive repair facility to complete this program and are able to complete the PA State Safety Inspector and Emission Inspector certifications. In addition, courses in oral and written communication, as well as in the social and natural/physical science areas, help to supplement their studies by providing students with critical and creative thinking skill that may enhance their career opportunities. Graduates of career and technology school auto-mechanics programs or applicants with substantial work experience may receive up to nine credits towards completion of this program after submitting appropriate documentation. This program is accredited by the Automotive Service Excellence (ASE) Foundation in eight categories of automotive repair. The complete program is only available at the Harrisburg Campus.

*Selective Program:* Entry into this program is not guaranteed with admission to the College. Specific admissions criteria must be met, such as a passing grade on the mechanical aptitude test, and the possession of a valid PA Driver's license. Please contact the Faculty Program Supervisor to schedule an appointment to review all of the entrance requirements.

## Career Opportunities

Graduates of the program are prepared for employment as service technicians. In addition, graduates obtain the skills needed to move into service advising and management positions. Other possible career paths may include parts management, fixed operations management, and technical trainer.

## Competency Profile

This curriculum is designed to prepare students to:

- Complete the Pennsylvania State Emissions Inspector and Safety Inspection License examinations
- Work as service technicians in automotive repair facilities or dealerships
- Work in management positions within the automotive service industry or operate their own repair facility

## PROGRAM REQUIREMENTS (TOTAL CREDITS = 63)

General Education		Major Requirements		Other Required Courses	
ENGL 110 Foundations in Professional Writing	3	AUTO 101 Automotive Fundamentals	3	WELD 111 Welding Applications	3
COMM 101 Effective Speaking	3	AUTO 103 Automotive Powerplants	3		
Humanities & Arts Elective*	3	AUTO 105 Fundamental of Electrical Electronics I	3		
Mathematics or Science Elective (Rec: PHSC 113)	3	AUTO 107 Fuel and Emission Control Systems	3		
Social and Behavioral Science Elective (Rec: SOCI201)	3	AUTO 151 Braking Systems	3		
First-Year Seminar Elective	1	AUTO 153 Suspension Systems	3		
Wellness	1	AUTO 157 Engine Performance Testing	3		
		AUTO 159 Automotive Heating/Air-Conditioning Systems	3		
		AUTO 191 Cooperative Work Experience**	2		
		AUTO 203 Manual Transmissions/Drivelines	3		
		AUTO 205 Intermediate Automotive Electrical/Electronics	3		
		AUTO 207 Powertrain Management Systems	3		
		AUTO 251 Service Department Management	2		
		AUTO 253 Automatic Transmissions/Transaxles	3		
		AUTO 255 Advanced Electrical/ Electronics	3		
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\*Students select from the following courses: ART 181, 182; ENGL 206; HUM 101, 115, 201; MUS 104; PHIL 200; THTR 101; or a foreign language course.

\*\*AUTO 191 can be taken any semester after the completion of AUTO 101, 103, 105, 107, 151 and 153.

### **RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Part-time students can complete this program by taking one or more courses each semester.

<b>Fall Semester I</b>	<b>Spring Semester I</b>	<b>Summer</b>	<b>Fall Semester II</b>	<b>Spring Semester II</b>
AUTO 101 3	AUTO 103 3	AUTO 191** 2	AUTO 157 3	AUTO 207 3
AUTO 105 3	AUTO 107 3		AUTO 203 3	AUTO 251 2
AUTO 151 3	AUTO 159 3		AUTO 255 3	AUTO 253 3
AUTO 153 3	AUTO 205 3		Humanities/Arts Elective* 3	COMM 101 3
ENGL 110 3	Math/Science Elective 3		WELD 111 3	Social/Behavioral Science Elective 3
FYS Elective 1			Wellness 1	

\*\* The Cooperative experience (AUTO 191) can be taken any semester after the completion of AUTO 101,103,105,107,151, and 153.