

Automotive Systems Technology

Automotive Systems Technology (A60160)

Degree Awarded

The Associate in Applied Science Degree - Automotive Systems Technology is awarded by the college upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Program Accreditation

The BMW-ADP and GM-ASEP programs are Master Certified by the National Automotive Technician Foundation (NATEF) Automotive Service Excellence (A.S.E.).

Program Manufacturer Partners

General Motors' Automotive Service Excellence Program (ASEP), and BMW (ADP) are options for this associate degree program. In addition, Central Piedmont currently offers a Honda Professional Automotive Career Training (PACT) program certificate as an Express Service Technician. Contact the Public Service & Transportation Division Cooperative Education Coordinator at 704.330.4157 or the Transport Systems Technology Division at 704.330.2722 ext. 7331 for manufacturer program information.

Note: Students must furnish required hand tools and protective clothing, as well as textbooks. A list of these items can be obtained from an instructor or by contacting the Program Chair at 704.330.2722 ext. 7331.

Contact Information

The Automotive Systems Technology program is in the Public Service & Transportation Division, which can be reached at 704.330.2722 ext. 7331.

General Education Requirements

ENG 111	Writing and Inquiry	3.0
Select 3 credits of the following:		3.0
COM 110	Introduction to Communication	
	or COM 231 Public Speaking	
Select 3 credits of the following:		3.0
MAT 110	Mathematical Measurement and Literacy	
MAT 143	Quantitative Literacy	
MAT 152	Statistical Methods I	
MAT 171	Precalculus Algebra	
Select 3 credits of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	

MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
Select 3 credits of the following:		3.0
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	

Major Requirements

ACA 122	College Transfer Success	1.0
TRN 110	Introduction to Transport Technology	2.0
TRN 120	Basic Transportation Electricity	5.0
TRN 140	Transportation Climate Control	2.0
AUT 141	Suspension & Steering Systems	3.0
AUT 151	Brake Systems	3.0
AUT 181	Engine Performance 1	3.0
AUT 183	Engine Performance 2	4.0
TRN 170	PC Skills for Transportation	2.0
AUT 116	Engine Repair	3.0
AUT 163	Advanced Automotive Electricity	3.0
Select 3 credits from the following		3.0
TRN 145	Advanced Transportation Electronics	
ATT 140	Emerging Transportation Technology	
Select 2 credits from the following		2.0
ATT 115	Green Transportation Safety and Service	
TRN 180	Basic Welding for Transportation	
Select 6 credits of the following		6.0
AUT 221	Automatic Transmissions/Transaxles	
AUT 231	Manual Transmissions/Transaxles/Drive Trains	
ATT 125	Hybrid-Electric Transportation	
Technical Electives		
Select 9 credits of the following:		9.0
TRN 120A	Basic Transportation Electrical Lab	
TRN 140A	Transportation Climate Control Lab	
TRN 180A	Basic Welding for Transportation Lab	
AUT 113	Automotive Servicing I	
AUT 114	Safety and Emissions	
AUT 114A	Safety and Emissions Lab	
AUT 116A	Engine Repair Lab	
AUT 141A	Suspension & Steering Lab	
AUT 151A	Brakes Systems Lab	
AUT 213	Automotive Servicing 2	
AUT 221A	Automatic Transmissions/Transaxles Lab	
AUT 231A	Manual Transmissions/Transaxles/Drive Trains Lab	
WBL 112	Work-Based Learning I	

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WBL 122	Work-Based Learning II
WBL 132	Work-Based Learning III
WBL 212	Work-Based Learning IV
AUT 212	Auto Shop Management
ATT 140	Emerging Transportation Technology
AUT 281	Advanced Engine Performance
AUT 181A	Engine Performance 1 Lab
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Total Credits	66