

WAYNE COMMUNITY COLLEGE

**Automotive Systems Technology/General Motors GM ASEP (A60160A)**

Official Program Description registered with the NC Community College System:

The Automotive Systems Technology (GMASEP) curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/trans axles, engine repair, climate control, and manual drive trains.

Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

(The General Motors Automotive Service Educational Program (GM-ASEP) is a partnership involving educational institutions, national and local businesses, students, as well as local GM dealerships throughout eastern North Carolina.)

**Program Learning Outcomes**

Upon completion of the Automotive Systems Technology GM-ASEP program, the new graduate is expected to:

- Diagnose and repair concerns related to ASE area A1 Engine Repair.
- Diagnose and repair concerns related to ASE area A2 Automatic Trans/Transaxle.
- Diagnose and repair concerns related to ASE area A3 Manual Drive Train and Axles.
- Diagnose and repair concerns related to ASE area A4 Suspension and Steering.
- Diagnose and repair concerns related to ASE area A5 Brakes.
- Diagnose and repair concerns related to ASE area A6 Electrical Electronic Systems.
- Diagnose and repair concerns related to ASE area A7 Heating and Air Conditioning.
- Diagnose and repair concerns related to ASE area A8 Engine Performance.

**Degree Awarded**

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

**Note**

Students are required to purchase tools and safety glasses. Costs are available by calling Automotive Systems Technology instructor at (919) 739-6820 or 6819.

**For More Information**

The Automotive Systems Technology GM ASEP program is in the Applied Technology Division. For more information call (919) 739-6820 or 6819 or visit us at our web site at [www.waynecc.edu](http://www.waynecc.edu).

**Admissions**

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

**First Step To Enroll:**

Call the Admissions and Records Office at (919) 739-6720.

			Contact Hours	Semester Credit Hours
<b>FIRST SEMESTER</b>				
ACA	111	College Student Success.....	1	1
AUT	110	Intro to Automotive Technology.....	4	3
AUT	116	Engine Repair .....	5	3
AUT	161	Basic Automotive Electricity.....	7	5
COE	110	World of Work .....	1	1
ENG	111	Expository Writing .....	3	3
				17
<b>SECOND SEMESTER</b>				
AUT	114	Safety and Emissions .....	2	2
AUT	141	Suspension & Steering Sys. ....	5	3
AUT	151	Brake Systems.....	5	3
AUT	163	Advanced Automotive Electricity/Electronics.....	5	3
COE	112	Co-op Work Experience.....	20	2
				12
<b>SUMMER TERM</b>				
AUT	171	Auto Climate Control.....	6	4
AUT	181	Engine Performance I.....	5	3
AUT	283	Adv Auto Electronics .....	4	3
MAT	115	Mathematical Models.....	4	3
		OR		
MAT	121	Algebra/Trig .....	4	3
				13
<b>THIRD SEMESTER</b>				
AUT	183	Engine Performance 2 .....	8	4
AUT	231	Man Trans/Axles/DrTrains .....	5	3
COE	122	Co-op Work Experience II.....	20	2
ENG	114	Prof Research & Reporting.....	3	3
				12
<b>FOURTH SEMESTER</b>				
AUT	281	Adv Engine Performance.....	4	3
AUT	221	Auto Trans/Transaxles.....	5	3
COE	132	Co-op Work Experience III.....	20	2
		Humanities/Fine Arts Elective..	3	3
		Social/Behavioral Science Elective	3	3
				14
		<b>Total Credit Hours</b>		68