

WAYNE COMMUNITY COLLEGE

Automotive Systems Technology/Multiple Manufacturing ATEP (A60160)

Official Program Description registered with the NC Community College System:

The Automotive Systems Technology, 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 Multiple Automotive Manufacturing Technician Educational Program (MM-ATEP) is a partnership involving educational institutions, national and local businesses, students, and a.m.eric an and foreign automotive dealers and repair shops in the College's service area.

Program Learning Outcomes

Upon completion of the Automotive Systems Technology/Multiple Manufacturing ATEP program, a graduate should be able 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, MM ATEP, 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 an Automotive Systems Technology instructor at (919) 739-6819 or 6821.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739- 6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- 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
FIRST SEMESTER				
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
ENG	111	Expository Writing	3	3
COE	110	Co-op World of work	1	1
		OR		
AUT	116A	Engine Repair Lab	3	1
				16
SECOND SEMESTER				
AUT	114	Safety and Emissions	3	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 I.....	20	2
		OR		
AUT	141A	Suspension & Steering Lab	3	1
		AND		
AUT	151A	Brake Systems Lab.....	3	1
				13
SUMMER TERM				
AUT	171	Automotive Climate Control	6	4
AUT	181	Engine Performance I	5	3
AUT	283	Advanced Automotive Elec	4	3
MAT	115	Mathematical Models.....	4	3
		OR		
MAT	121	Algebra/Trigonometry	4	3
				13
THIRD SEMESTER				
AUT	183	Engine Performance 2	8	4
AUT	231	Man Trans/Axles/DrTrains	5	3
ENG	114	Prof Research & Reporting.....	3	3
COE	122	Co-op Work Experience II.....	20	2
		OR		
AUT	231A	Manual Trans/Axels/DrTrains...	3	1
		AND		
AUT	212	Auto Shop Management	3	3
				12-14
			Contact Hours	Semester Credit Hours
FOURTH SEMESTER				
AUT	281	Adv Engine Performance.....	4	3
AUT	221	Auto Trans/Transaxles.....	5	3
		Humanities/Fine Arts Elective..	3	3
		Social/Behavioral Science Elective	3	3
COE	132	Co-op Work Experience III.....	20	2
		OR		
AUT	223A	Auto Trans/Axles Lab.....	3	1
				13-14
Total Credit Hours				67-70