

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 centers in the automotive service industry.

The Multiple Manufacturing Technician Educational Program (MM-ATEP) is a partnership involving educational institutions, national and local businesses, students, and American and foreign automotive dealers and repair centers in the College's service area.

Program Learning Outcomes

The Automotive Systems Technology (ATEP)/General Motors Automotive Service Educational Program (ASEP) 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 the Automotive Service Excellence (ASE) Automobile areas A1-A8 including brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/trans axles, engine repair, heating ventilation and air/conditioning, and manual drive trains.

Upon completion of this curriculum, students will be able to:

- Diagnose concerns related to the Automotive Service Excellence (ASE) Automobile areas A1-A8 including brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/trans axles, engine repair, heating ventilation and air/conditioning, and manual drive trains.

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) 735-5151, ext. 214 or 339.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 735-5151, ext. 214 or 339 or visit us at our web site at <http://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) 735-5151, ext. 238.

	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
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
	Contact Hours	Semester Credit Hours
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