

Automotive Technology

The complexity of motor vehicles demands a very high level of technical knowledge and skill for service personnel. Basic learning skills in reading, writing, and computation are essential to success in the field. The program is a full-time commitment for one academic year, all day four days a week for two semesters plus all day for five days a week in the summer. Basic vehicle theory and principles are taught in the classroom to give the student an understanding of how electrical, electronic, and mechanical components function and why they fail. Actual shop practices train the student to utilize appropriate safety procedures, research repair procedures, record time and effort, make repairs, diagnose, replace, and adjust components. The Automotive Technology curriculum prepares graduates for entry-level employment in vehicle diagnosis, repair, and maintenance work and leads to target jobs in deep east Texas.

Admission Criteria for Automotive Technology

Program application process to be completed before the end of the first summer session:

1. Gain admission to Angelina College
2. Proof of a valid Texas driver's license with no outstanding tickets

Program Admission Process

The first 14 qualified students to provide the valid driver's license and complete any other conditional terms will receive "full" acceptance into the program. Accepted students must pay tuition and fees and purchase textbooks before the first class day.

Cooperative Education (Coop) Class Screening

The coop site will interview students for employment at least two weeks before the coop begins. Coop sites will require a drug test, criminal background check, and driver's license check in the same way a potential employee would. The coop site will do these screenings before accepting students for a coop position at their facilities. The employer will pay for the screening.

Program Learning Outcomes (PLO)

PLO 1: Demonstrate how to properly set the lift to raise a vehicle in the air safely.

PLO 2: Apply knowledge to resurface a brake rotor using the ProCut on the car brake lathe.

PLO 3: Apply knowledge to mount and balance a tire correctly.


PLO 4: Diagnose and analyze results to determine the cause of an electrical fault.

PLO 5: Demonstrate the ability to set up the four-wheel alignment machine and evaluate the readings to determine the needed adjustments to correct the alignment.

Courses Measuring the Achievement of Program Learning Outcomes

<u>Course</u>	<u>PLO 1</u>	<u>PLO 2</u>	<u>PLO 3</u>	<u>PLO 4</u>	<u>PLO 5</u>
AUMT 1410	X	X			
AUMT 1416			X		X
AUMT 2434				X	

AUTOMOTIVE TECHNOLOGY RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER			Credit Hours	✓
<i>Term 1</i>				
AUMT	1407	Automotive Electrical Systems	4	<input type="checkbox"/>
AUMT	1410	Automotive Brake Systems	4	<input type="checkbox"/>
<i>Term 2</i>				
AUMT	1416	Automotive Suspension/Steering	4	<input type="checkbox"/>
AUMT	1419	Automotive Engine Repair	4	<input type="checkbox"/>
1ST YEAR, 2ND SEMESTER				
<i>Term 1</i>				
AUMT	2417	Automotive Engine Performance Analysis I	4	<input type="checkbox"/>
AUMT	2425	Automotive Transmissions	4	<input type="checkbox"/>
<i>Term 2</i>				
AUMT	2434	Automotive Engine Performance Analysis II	4	<input type="checkbox"/>
AUMT	1445	Automotive Climate Control Systems	4	<input type="checkbox"/>
	Apply for Graduation			<input type="checkbox"/>
1ST YEAR, SUMMER SEMESTER				
<i>Full Term</i>				
AUMT	2480	Cooperative Education - Automotive	4	<input type="checkbox"/>
* Earned:	Level 1 Certificate in Automotive Technology		Total Hours	36