

Diesel Technology

Angelina College offers a comprehensive Diesel Technology program designed to equip students with the skills needed for a successful career in diesel mechanics. The curriculum covers engine repair, diagnostics, maintenance, and troubleshooting of diesel engines and related systems. Students gain hands-on experience with modern equipment and technologies, preparing them for roles in various industries, including transportation, construction, and agriculture. The program emphasizes safety, teamwork, and problem-solving skills, ensuring graduates are well-prepared for the workforce.

Program Learning Outcomes (PLO)

PLO 1: Demonstrate their ability to adjust engine valve clearance.

PLO 2: Demonstrate their ability to correctly identify diesel fuel system components.

PLO 3: Demonstrate their ability to correctly identify diesel engine components.


PLO 4: Demonstrate their shop safety skills.

PLO 5: Demonstrate their ability to utilize a digital multimeter.

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>
DEMR 1406 (L1, AAS)	X		X		
DEMR 1413 (L1, AAS)		X			
DEMR 1301 (L1, AAS)				X	
DEMR 1405 (L1, AAS)					X

DIESEL TECHNOLOGY RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER			Credit Hours	✓
<i>Term 1</i>				
DEMR	1301	Shop Safety and Procedures	3	<input type="checkbox"/>
DEMR	1405	Basic Electrical Systems	4	<input type="checkbox"/>
STSU	0300	Student Success	0	<input type="checkbox"/>
<i>Term 2</i>				
DEMR	1406	Diesel Engine I	4	<input type="checkbox"/>
DEMR	1413	Fuel Systems	4	<input type="checkbox"/>
			15	
1ST YEAR, 2ND SEMESTER				
<i>Term 1</i>				
DEMR	1410	Diesel Engine Testing and Repair I	4	<input type="checkbox"/>
DEMR	1442	Power Train Applications I	4	<input type="checkbox"/>
<i>Term 2</i>				
DEMR	1449	Diesel Engine II	4	<input type="checkbox"/>
DEMR	2432	Electronic Controls	4	<input type="checkbox"/>
* Earned: <i>Level 1 Certificate in Diesel Technology - Basic</i>			16	
SUMMER SEMESTER				
DEMR	1416	Basic Hydraulics	4	<input type="checkbox"/>
DEMR	24XX	Choose DEMR 2412 or 2480	4	<input type="checkbox"/>
* Earned: <i>Level 1 Certificate in Diesel Technology</i>			8	
2ND YEAR, 1ST SEMESTER				
<i>Term 1</i>				
POFI	1301	Computer Applications I	3	<input type="checkbox"/>
XXXX	230X	Choose HRPO 2301 or BUSG 2309	3	<input type="checkbox"/>
<i>Term 2</i>				
MATH	1332	Contemporary Mathematics	3	<input type="checkbox"/>
			9	
 Apply for Graduation				
2ND YEAR, 2ND SEMESTER				
<i>Term 1</i>				
ENGL	1301	Composition I	3	<input type="checkbox"/>
SOCI	1301	Introduction to Sociology	3	<input type="checkbox"/>
<i>Term 2</i>				
SPCH	1318	Interpersonal Communication	3	<input type="checkbox"/>
XXXX	13XX	Creative Arts Core	3	<input type="checkbox"/>
* Earned: <i>Associate of Applied Science in Diesel Technology</i>			Total Hours	60