

DIESEL TECHNOLOGY

Eagle Pass Campus

Purpose

The purpose of the Diesel Technology program is to provide students with training in maintaining, troubleshooting, and repairing heavy-duty diesel powered equipment. Coursework emphasizes diesel engines, hydraulics, electrical, air conditioning, and diesel fuel injection systems. The goal of the program is for graduates to be employable as entry-level technicians in a service shop or dealership. Typical diesel industry employers include truck and automobile dealerships, trucking, bus, and construction companies; and firms that rent or lease trucks.

Admission Requirements

Students are admitted to the Diesel Technology program through regular college admission procedures (*see Admission Regulations section*). Students who complete the required program courses must make a formal application for graduation (*see Curricula section*).

The Diesel Technology program carries three award options, a one-year Certificate, two-year Certificate, and an Associate of Applied Science (A.A.S.) degree. College Board policy requires all students to take the Accuplacer examination. Students pursuing the one-year Certificate do not have to pass the Accuplacer; however, those not scoring at the READ 0302 level are encouraged to enroll in the appropriate developmental course(s).

Students who wish to pursue the two-year Certificate and/or the A.A.S. degree must meet all Texas Success Initiative (TSI) requirements.

DIESEL TECHNOLOGY ONE-YEAR CERTIFICATE

Program of Study

	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
ORIE 0100 π or COLS 0300	New Student Orientation College Success Skills		DEMR 1449 ¹ DEMR 1417 DEMR 1421	Diesel Engine II..... Basic Brake Systems Power Train I.....	4 4 4
DEMR 1229 DEMR 1406 DEMR 1405 DEMR 1301	Preventative Maintenance Diesel Engine I Basic Electrical Systems Shop Safety and Procedures.....	2 4 4 3		Total	12
	Total	13		Total Credit Hours for Certificate	25

- Notes: 1 Capstone course that consolidates the student's learning experiences.
 π All students are required to take ORIE 0100 or COLS 0300; however, ORIE 0100/COLS 0300 do not count toward degree requirements.

DIESEL TECHNOLOGY TWO-YEAR CERTIFICATE

Program of Study

	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
ORIE 0100 π or COLS 0300	New Student Orientation College Success Skills		DEMR 1449 ¹ DEMR 1417 DEMR 1421	Diesel Engine II..... Basic Brake Systems Power Train I.....	4 4 4
DEMR 1229 DEMR 1406 DEMR 1405 DEMR 1301	Preventative Maintenance Diesel Engine I Basic Electrical Systems Shop Safety and Procedures.....	2 4 4 3		Total	12
	Total	13			

SECOND YEAR

	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
DEMR 1423 DEMR 1410 DEMR 1447	Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair..... Diesel Engine Testing and Repair I Power Train II.....	4 4 4	DEMR 2348 DEMR 2432 DEMR 2281 ¹ DEMR 1330	Failure Analysis Electronic Controls..... Coop Education – Diesel Mechannics Technology/Technician Steering and Supervision I	3 4 2 3
	Total	12		Total	12
				Total Credit Hours for Certificate	49

- Notes: 1 Capstone course that consolidates the student's learning experiences.
 π All students are required to take ORIE 0100 or COLS 0300; however, ORIE 0100/COLS 0300 do not count toward degree requirements.

**DIESEL TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE DEGREE**

	<u>Credit</u>
General Education Courses:	
Social & Behavioral Sciences	3
Humanities & Fine Arts	3
Natural Science & Math	3
Other	7
Total General Education Courses.....	16
Technical Education Courses.....	49
Total Credit Hours for A.A.S.	65

Program of Study

FIRST YEAR

	<u>Fall Semester</u>	<u>Credit</u>	<u>Spring Semester</u>	<u>Credit</u>
ORIE 0100π or COLS 0300	New Student Orientation College Success Skills		DEMR 1449 Diesel Engine II..... DEMR 1417 Basic Brake Systems DEMR 1421 Power Train I..... COSC 1401 Microcomputer Applications.....	4 4 4 4
DEMR 1229	Preventative Maintenance	2		
DEMR 1406	Diesel Engine I	4		
DEMR 1405	Basic Electrical Systems	4		
DEMR 1301	Shop Safety and Procedures	3		
ELECTIVE	Humanities & Fine Arts	3		
	Total	16	Total	16
	<u>Summer Session</u>	<u>Credit</u>		
ELECTIVE	Speech Communications	3		
ELECTIVE	Social and Behavioral Sciences.....	3		
	Total	6		

SECOND YEAR

	<u>Fall Semester</u>	<u>Credit</u>	<u>Spring Semester</u>	<u>Credit</u>
DEMR 1423	Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair	4	DEMR 1330 Steering and Suspension I..... DEMR 2348 Failure Analysis..... DEMR 2432 Electronic Controls..... DEMR 2281 ¹ Cooperative Education – Diesel Mechanics Technology/Technician	3 3 4 2
DEMR 1447	Power Train II.....	4		
DEMR 1410	Diesel Engine Testing and Repair I	4		
ELECTIVE	College Level Mathematics	3		
	Total	15	Total	12
			Total Credit Hours for A.A.S.	65

- Notes: 1 Capstone course that consolidates the student's learning experiences.
π All students are required to take ORIE 0100 or COLS 0300; however, ORIE 0100/COLS 0300 do not count toward degree requirements.

Tuition and Fees

Standard tuition and fees are assessed to each student as indicated in *Finances* section. Lab and uniform fees are also assessed (*see Course Descriptions*). Each student can also expect to purchase the following required textbooks and tools.

1 Tool Set* (*approximate cost*).....\$600

* A tool list will be provided by instructor.

Textbooks (*approximate cost*).....\$225