



**Syllabus:** Diesel Technology – Basic Brake Systems

**Course Number:** DEMR 1317

**Semester:** Second

**Instructor Information**

Name: David Lipscomb

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**Textbook Information**

Textbook: MDT: Heavy Equipment Systems, 1st Edition

ISBN-10: 1418009504 ISBN-13: 9781418009502

Textbook: Diesel Technology, Fundamentals Service Repair, 7<sup>th</sup> Edition

ISBN-10: 1590707702 ISBN-13: 9781590707708

Workbook: Diesel Technology, Fundamentals Service Repair, 7<sup>th</sup> Edition

ISBN-10: 1590707710 ISBN-13: 9781590707715

**Student Learning Outcomes for the Course**

Demonstrate the basic theory and operation of the brake systems, diagnose brake components for wear and usability, repair brake components by rebuilding or replacing parts, and adjust brake components.

**Student Requirements for Completion of the Course and Due Dates**

All students are required as a capstone for their courses to create a performance notebook of work; this also includes a professional resume and diesel/ heavy duty equipment related classes attended outside of the normal class period (Seminars, ASE related training, etc.). All students are required to attend all campus events as directed by the program coordinator or be counted absent.

**Student Assessment (You have the following possibilities for earning points:)**

(1) 30 Chapter completion (2 per week in order)	20
(2) Workbook Assignments (2 per week in order)	20
(3) Rotating Application Lab- as assigned	25
(4) Chapter Exams (2 per week in order)	20
(5) Shop/classroom attitude, participation, performance	5
(6) Performance Notebook	<u>10</u>

## Grading Scale

Grade	
A	90-100
B	80-89
C	70-79
D	60-69
F	59-below

## Class Schedule

**Two chapters in order from Diesel Technology, Fundamentals Service Repair, 7<sup>th</sup> Edition per week.** This includes completion of workbook and exams. Rotating Lab work as opportunity provides.

## Attendance Policy

- Day Class BEGINS at 8:00 A.M. sharp and ends at 3:00 P.M.
- Each day when the student arrives he/she must clock in at the diesel technology office and take his/her seat in the classroom, unless otherwise instructed. Students must clock in and out for lunch and at the end of the day.
- Students arriving to class between 8:01 A.M. and 8:15 A.M. will be counted tardy. (4 tardies equal an absence) (After 8:15 A.M. student will be considered absent pending circumstances.)
- Texarkana College Diesel Technology has a five (5) day absentee policy. Students will be considered dropped on the sixth (6<sup>th</sup>) absence during the semester.
- Students are allowed three (3) disciplinary action form instances per semester with the student being dropped on the fourth (4<sup>th</sup>) occurrence.

## Make-up Policy

Scheduled written assignments and exams due the day upon return  
Lab work missed must be logged at the instructor's discretion and timetable.  
Other assignments due the next day after return.

### **Academic Integrity Statement**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F".

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

### **Disability Act Statement:**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations..

### **Financial Aid:**

**Attention!** Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.



# Texarkana College

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## Workforce Education Division Diesel Technology

Course Schedule	Credit Hrs	1st Semester	
		Contact Hrs	
<b>First</b>		Class	Internship
DEMR 1301 Shop Safety and Procedures	3	76	
DEMR 1405 Basic Electrical Systems	4	128	
DEMR 1306 Diesel Engines I	3	96	
DEMR 1421 Power Train I	4	96	
<b>Total Hours</b>	<b>14</b>	<b>396</b>	
<b>Second</b>		<b>2nd Semester</b>	
		Class	Internship
DEMR 1410 Diesel Engine Testing and Repair I	4	122	
DEMR 2412 Diesel Engine Testing and Repair II	4	122	
DEMR 1317 Basic Brake Systems	3	96	
DEMR 1423 Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair	4	?	
<b>Total Hours</b>	<b>15</b>	<b>?</b>	
<b>Third</b>		<b>3rd Semester</b>	
		Class	Internship
DEMR 2432 Electronic Controls	4	122	
DEMR 1449 Diesel Engine II	4	64	
DEMR 2334 Advanced Diesel Tune-up and Troubleshooting	3	64	
DEMR 2266 Practicum or Field Experience- Diesel Mechanics Technology/Technician	2		326
<b>Total Hours</b>	<b>13</b>	<b>250</b>	<b>326</b>
<b>Total Program Hours</b>	<b>42</b>	<b>1440</b>	

\* 8-3 with 40 min lunch and two 10 min breaks