

**MIDLAND COLLEGE**  
**SYLLABUS**  
**DEMR 1330**  
**SUSPENSION AND STEERING**  
**2-4**

**Course Description:** Theory and operation of suspension and steering systems including tire and wheel problem diagnosis, component repair, and alignment procedures. May be taught manufacturer specific. Prerequisite: DEMR 1329 or instructor approval.

Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.

**Text, References and Supplies:** Required: **Cengage Unlimited digital e-book--**. Heavy Duty Truck Systems, 7th Edition, 9781337787109

**Course Goals/Objectives:** Utilizing appropriate safety procedures, the student will identify and diagnose system components; repair or replace system components; perform two and four wheel alignment procedures; and perform tire service and repair.

- A. STEERING SYSTEMS DIAGNOSIS AND REPAIR**
- B. SUSPENSION SYSTEMS DIAGNOSIS AND REPAIR**
  - a. Front Suspensions**
  - b. Rear Suspensions**
  - c. Miscellaneous Service**
- C. WHEEL ALIGNMENT DIAGNOSIS, ADJUSTMENT AND REPAIR**
- D. WHEEL AND TIRE DIAGNOSIS AND REPAIR**
- E. ACCESSORIES DIAGNOSIS AND REPAIR**

**Students may perform the following tasks in order to maintain safe lab and classroom spaces:**

- Participate in shop and classroom maintenance which may include, but not limited to sweeping, mopping, disposing of trash, cleaning work benches, organize tools and equipment, organize tool room, disinfect classroom tables and chairs.
- Disassemble discontinued lab training vehicles or equipment for salvage.
- Repurpose lab vehicles to be utilized in lab assignments.
- Other course related tasks as assigned by instructor.

**Student Contributions and Class Policies:**

1. Student/Participant must furnish a set of approved safety eye glasses.
2. Student/Participant must understand class attendance is critical; therefore, three consecutive absences or five total absences may be considered justification for failure or dismissal from class.
3. Punctuality, being prepared for class, being alert, participating pro-actively and exhibiting a respectful and appropriate attitude will be required.

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**Evaluation of Students:**

10% = Attendance/Punctuality  
10% = Professionalism/Participation  
25% = Mid-term & Final exams  
40% = Skills Objectives (Lab Assignments)  
15% = Knowledge Objectives (Classroom Assignments)  
100% Total

90 and above	A
80-89	B
70-79	C
60-69	D
59 and below	F

**Course Schedule:** This class meets for 2 lecture hours and 4 lab hours per week.

**SCANS Information:** SCANS skills are taught and/or reinforced in diesel courses. The student must locate, read, interpret and understand instruction information and direction materials. The participant must communicate thoughts, ideas and information through verbal and written mediums. Practical arithmetic and mathematics will apply continually throughout diesel technology training. Listening, interpreting, and responding to verbal communications and instructions as well as speaking in response to questioning will be a daily involvement. Thinking, reasoning, visualizing and problem solving are required assets to the automotive technician. The student/participant must display responsibility, self-management and honesty.

**Administrative Information:**

Curt Pervier, Dean, Applied Technology

Lisa Hays, Division Secretary, Applied  
Technology  
(432) 685-4676  
Fax: (432) 685-6472

Students should feel free to contact the instructor at any time. Appointments are encouraged for advising and planning the most appropriate or beneficial course work.

\*Syllabus subject to change as deemed necessary by the instructor to ensure learning objectives and course goals are met.

**Non-Discrimination Statement**

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individual has been designated to handle inquiries regarding the non-discrimination policies:

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**Tana Baker**

Title IX Coordinator/Compliance Officer

3600 N. Garfield, SSC 131

Midland, Texas 79705

(432) 685-4781

[tbaker@midland.edu](mailto:tbaker@midland.edu)

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

**Americans with Disabilities Act (ADA) Statement:**

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit [www.midland.edu/accommodation](http://www.midland.edu/accommodation) and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a "Notice of Accommodations" letter will be sent to instructors outlining any reasonable accommodations.