Course Description: An introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems.

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: “Medium/Heavy Duty Commercial Vehicle System” by Owen C. Duffy and Gus Wright. Text: 9781284041163 WkBk: 9781284041200 (Note that only one workbook is required for ALL courses: DEMR 1305, 1317, 1321, 1329, 1330, 1335)

End-of-Course Outcomes: Apply preventative maintenance practices; perform preventative maintenance on systems; and practice appropriate record keeping.

A. GENERAL ELECTRICAL SYSTEM DIAGNOSIS
B. BATTERY DIAGNOSIS AND REPAIR
C. STARTING SYSTEM DIAGNOSIS AND REPAIR
D. CHARGING SYSTEM DIAGNOSIS AND REPAIR
E. LIGHTING SYSTEMS DIAGNOSIS AND REPAIR
1. HEADLIGHTS, DAYTIME RUNNING LIGHTS, PARKING, CLEARANCE, TAIL, CAB AND INSTRUMENT PANEL LIGHTS
2. STOP LIGHTS, TURN SIGNALS, HAZARD LIGHTS, AND BACK-UP LIGHTS
G. RELATED ELECTRICAL SYSTEMS

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.

Evaluation of Students: Chapter Questions 40%
Participation 10%
Lab Tasks & Final Exam 50%
Total 100%

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<tr>
<th>Grade</th>
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<tr>
<td>A</td>
<td>90 and above</td>
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<td>B</td>
<td>80-89</td>
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<td>C</td>
<td>70-79</td>
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<tr>
<td>D</td>
<td>60-69</td>
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**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 direct 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, Applied Technology Dean
Lisa Tanner, Division Secretary
Technology Studies
(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.

**Students with Disabilities**
Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

10/20/16