

**MIDLAND COLLEGE**  
**SYLLABUS**  
**CETT 1302**  
**ELECTRICITY PRINCIPLES**  
**2-2**

**Course Description:**

Principles of electricity including proper use of test equipment, A/C and D/C circuits, and component theory and operations.

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:**

ELECTRICAL PRINCIPLES AND PRACTICES-W/CD, ISBN:9780826918116

- Scientific Calculator

**Learning Objectives:**

1. Identify basic principles of electricity (A/C and D/C), voltage, current, and circuitry
2. Apply Ohm's law to electrical calculations
3. Use test equipment to measure continuity, voltage, and current values
4. Use electrical safety practices.

**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 Course Policies:**

**Attendance:** It is the student's responsibility to read and understand the official Midland College attendance policy as stated in the college catalog. If students have excessive unexcused absences, they may be sent a warning letter, and can be requested to be dropped from the class. Students that are tardy, take excessive break time, or leave before completion of the day's exercise (including proper clean-up), may be counted absent. This will be at the discretion of the instructor.

**Late work:** Late work will not be accepted. If you cannot make it to class it is your responsibility to email the instructor with your homework for the week.

**Cell phones:** Cell phones should be placed on silent while in class. If you need to answer your phone please quietly exit the room before answering the call.

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**Drop Policy:** It is the student's responsibility to drop this course if circumstances develop that prevents his/her completion of the course. Instructors no longer have the prerogative of awarding the letter grade of "W".

**Evaluation of Students:**

Participation/Attendance	25%
Exams	50%
Homework	<u>25%</u>
	Total 100%
90 and above	A
80-89	B
70-79	C
60-69	D
59 and below	F

**Course Schedule:** This class meets for 3 lecture hours.

**SCANS Information:** SCANS skills are taught and/or reinforced in energy/petroleum 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 energy/petroleum 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 energy/petroleum field. The student/participant must display responsibility, self-management and honesty.

**Administrative Information:**

Curt Pervier, Dean of Applied Technology

Lisa Hays, Division Secretary  
Applied Technology  
Office: Rm 143 TC  
Phone: (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.

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**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:

**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.