Course Description: A fundamental course in layout and fabrication related to the welding industry. Major emphasis is on structural shapes and use in construction. The student will identify welding symbols; identify and select measuring instruments and tools for fabricating projects; recognize correct layout and fabrication terminology; and identify structural shapes and materials. The student will be responsible for choosing the proper procedures, tools, and equipment to perform assigned actions and be able to explain these actions. Lab fee required.

Text, References, and Supplies: 1. Blueprint Rendering for Welders Bennett & Siy 2. The student will need to provide his/her own Drafting equipment.

Course Goal/Objectives: The following list of course goals will be addressed in the course. The goals are directly related to the performance objectives.

1. Define Terms
2. Demonstrate Blueprint Reading
3. Demonstrate Material Calculation
4. Complete Tool ID and Study Guide
5. Complete Job Spec. Study Guide
6. Complete Weld Symbol Study Guide and Test
7. Complete Fitting and Material Study Guide
8. Complete Weldment Design Study Guide and Test
9. Complete Orthographic Drawings
10. Complete Isometric Drawings
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Student Contributions, and Class Policies:

Attendance, desire to learn with steady and Consistent work.

1. The student will be enrolled in WELD 1453. The student will exhibit professional behavior. Performance will be satisfactory if;

   A. College attendance is adhered to
   B. Student participates in class
   C. Student maintains a positive attitude

2. Unless otherwise stated, the student will be allowed references, including research material located in the Midland College Welding Technology Library. The student will be provided demonstrations for each of the content goals as seen necessary by the instructor. These goals will be complete and satisfactory is consistent with AWS and the course text.

3. Satisfactory performance will be measured by an objective and/or application exam and instructors observation.

Evaluation of Students:

Packet Grades.......................................................50%
Exercise Tests........................................................10%
Attendance, Class Participation, And Attitude..............................10%
Notebook.................................................................10%
Final Examination....................................................20%

90 and above A
80 to 89   B
70 to 79   C
60 to 69   D
50 to 59   F
(1 point per absence)

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Course Schedule: This course meets for 2 lecture hours and 5 lab hours per week.

SCANS Information: The following SCANS skills are taught and reinforced in this course:

RESOURCES:
Selects material and equipment and procedure which will allow or produce enough time to complete all goals. Estimates cost to complete all content goals.

THINKING:
Specifies goals and procedures needed to meet the desired test results. Develops new learning technique in researching AWS codes. Learns that strict compliance to the rules and regulations of these codes are necessary.
Instructor Information:

Dan Ledbetter, Instructor  
E-Mail: dledbetter@midland.edu  
(432) 685-4681  
Room 182 TC  
(432) 685-4681  
Fax: (432) 685-6472

Scott Cranford, Instructor ATC  
E-Mail: scranford@midland.edu  
ATC: (432) 681-6320  
Fax: (432) 697-9887

Ken Roland, Lab Instructor ATC  
E-Mail: kroland@midland.edu  
ATC: (432) 681-6347  
Fax: (432) 697-9887

Office Hours: TBA by Individual Instructors

Curt Pervier, Applied Technology Dean  
Lisa Hays, Applied Technology Secretary  
Room 143A TC  
(432) 685-4676  
Fax: (432) 685-6472

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor’s availability at a specific time.
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.

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.

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Spanish
Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias: Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu. Para más información sobre estas políticas no discriminatorias, visite http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm o llame al 1 (800) 421-3481.