

WLDG 2447
Advanced Gas Metal Mig (MIG) (4-2-6)

Western Texas College

- I. Basic Course Information
 - A. Course Description: Advanced topics in Gas Metal Mig Welding (GMAW). Includes welding in various positions.
 - B. Any required prerequisites: Freshman level courses or permission of instructor.
 - C. Required Grade for Enrolling in the Next Course in this Sequence: Satisfactory Completion
- II. Student Learning Outcomes
 - A. Demonstrate proficiency in various welding positions
 - B. Describe safety rules and equipment use
 - C. Describe the effects of welding parameters in GMAW
 - D. Weld various joint designs
 - E. Diagnose welding problems
 - F. Perform visual inspection
- III. Testing Requirements
 - A. The final exam will take place in the welding classroom.
 - B. Students are NOT allowed to use their book or but can use notes of any kind while taking their tests and exams.
 - C. Students are allowed to use a calculator.
- IV. Major Course Requirements
 - A. Attendance - 10%
 - B. Participation – 20%
 - C. Welding Fabrication Projects – 70%
- V. Information on Books and Other Course Materials
 - A. Required Book:
 - B. Book ISBN:
 - C. Required Access Code: None
 - D. Calculators: Students must have a calculator that provides them with the trig function keys. A TI-30XA or its equivalent is strongly recommended.
- VI. Other Policies, Procedures and important dates. Please refer to the WTC [Catalog](#) for the following:
 - A. Campus Calendar
 - B. Final exam schedule
 - C. How to drop a class
 - D. Withdrawal information
 - E. Student Conduct/Academic Integrity
 - F. Class Attendance
 - G. Students with disabilities
- VII. Course Content

WEEKS	LAB REQUIREMENTS
1-16	All students will go through a variety of steps to learn advanced techniques to cut different types of metals, chose electrode and to weld in various positions.
1-3	Advanced Mig Welding Project - Continue
4-5	Advanced Flat Position Mig Welding
6-8	Advanced Vertical Position Mig Welding
9-12	Advanced Horizontal Mig Welding
12-15	Advanced Overhead Mig Welding
16	Welding Joint Testing

Last Modified: February 15, 2017