

WLDG 2439
Advanced Oxy-Fuel Welding and Cutting (4-2-6)

Western Texas College

- I. Basic Course Information
 - A. Course Description: A study of all position welding on ferrous and nonferrous metals using oxy-fuel welding process, including welding and cutting, brazing, and soldering operations.
 - 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 oxy-fuel welding procedures
 - B. Demonstrate advanced oxy-fuel welding and cutting operations
 - C. Select appropriate tools, equipment, and materials.
- 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: NA
 - B. Book ISBN: NA
 - 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.
1-5	Advanced Cutting Metal Oxy
6-8	Advanced Oxy Weld
9	Advanced Brazing
10-16	Advanced Arc Welding
16	Final Exam Project

Last Modified: February 15, 2017