

**WLDG 2553**  
**Advanced Pipe Welding (5-3-6)**

**Western Texas College**

- I. Basic Course Information
  - A. Course Description: Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.
  - 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. Describe equipment and required pipe preparation and perform 5G and 6G welds using various electrodes.
- 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: none Book ISBN: none
  - B. Required Access Code: None
  - C. 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	Students will begin advanced pipe welds with various electrodes in various positions and continue to practice safety in class.
1	Advanced Pipe Cutting
2-7	1st Position of Advanced Pipe Welding – Up-Hill
8-12	2nd Position of Advanced Pipe Welding – Vertical Position
13-14	Advanced Pipe cutting for Visual Inspection
15-16	Pipe Prep and other gas and arc welding testing

Last Modified: September 20, 2016