



Mountain View College

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

**BUSINESS, COMPUTER SCIENCE, MATHEMATICS &
TECHNICAL DIVISION**

COURSE SYLLABUS

FOR

WLDG 2451 6780

ADV. GAS TUNGSTEN ARC (TIG)

Spring 2012

Instructor: Paul Stanglin

214-860-8631

WELDING 2451
Course Syllabus

Instructor: Paul Stanglin

Office Phone: 214-860-8631

Division: Business, Computer Science, Mathematics, and Technology
Division

E-mail droy@dcccd.edu

Office Hours: M-F 12:00pm-01:00pm

Fax Number: 214-860-3620

Office Number: W134D

Course Number: WLDG 1428

Lecture Days/Time: M-W 08:00am-09:00am

Lab Days/Time: 6 Lab Hours per week:
M-R 08:00am-12:00pm
M-R 06:00pm-10:00pm

Required Textbook: Welding Principles and Applications
6th Edition
Author: Larry Jeffus
ISBN 1-4018-1046-2
Welding Principles and Applications
Study Guide/Lab Manual
6th Edition
Author: Dewayne Roy
ISBN 1-4018-1048-9

Required Equipment: Welding hood (shade 10 lens), cutting goggles, safety glasses, striker, tip cleaner, chipping hammer, 4 ½” angle grinder, ear plugs, leather gloves (high gauntlet), pliers, stainless steel wire brush, ear plugs.

Credit Hours: Four (4)

Course Description: Advanced topics in GMAW welding, including welding in various positions and directions. This class places emphasis on welding pipe or tubing in the 1-2-5 and 6G positions with 100% penetration.

Course Prerequisites: One of the following must be met:

- 1). Student must be able to weld using E6010 and E7018's in the flat-horizontal-vertical and overhead position.
- 2). Student must have taken and passed WLDG 1428 with a 70 or above grade average.

Elements of Course Grade

Attendance	10%
Vocabulary	10%
Objectives, homework and misc. assignments	20%
Test	60%

The 10% attendance grade will be determined as follows:

0 absences = 100; 1 absence = 95; 2 absences = 85; 3 absences = 75; 4 absences = 60; 5 absences = 50; 6 absences = 40; 7 absences = 30; 8 absences = 20; 9 absences = 10; 10 or more absences = 0.

Grading Scale

90 – 100 =	A
80 - 89 =	B
70 – 79 =	C
60 – 69 =	D
Below 60 =	F

Disclaimer Reserving the Right to change Syllabus

The instructor reserves the right to amend this syllabus as necessary.

Withdrawal Policy (April 12)

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar's Office by the semester's drop date, April 12. Failure to do will result in your receiving a performance grade, usually an "F".

If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a "W" (withdraw) in each class dropped.

The official drop date will be listed in the college schedule and on the receipt that you received at registration. Please enter this date on the front page of this syllabus.

Repeating this Course

Effective for Fall Semester 2005, the Dallas Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class

may/may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at: https://www1.dcccd.edu/cat0506/ss/oep/third_attempt.cfm.

Financial Aid

If you are receiving financial aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grade may require that you repay financial aid funds.

The Texas Success Initiative (TSI)

The Texas Success Initiative (TSI) is a statewide program to ensure that students enrolled in Texas Public colleges and universities have the basic academic skills needed to be successful in college level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student's basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college level classes. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. Additional information is available at: https://www1.dcccd.edu/cat0506admiss/tsi_requirements.cfm.

Academic Honesty

Academic honesty is expected and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but it is not limited to, cheating on a test, plagiarism, and collusions. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD catalog. More information is available at: <https://www1.dcccd.edu/cat04006/ss/code.cfm>.

ADA Statement

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office.

Religious Holidays

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.

Inclement Weather Statement

If weather conditions are extreme, please listen to local radio stations, listen to your local television stations or check the DCCCD web site at: <http://www.dccd.edu> for campus closings.

Instructional Division

Business, Mathematics, Computer Science,
and Technology Division

Course: WLDG 2451
Arc Welding

Advanced Gas Tungsten

At the end of the term the student should be able to:

- A. List setup, current and gas for welding pipe alloys.
- B. Describe the effects of shielding gases on specified metals.
- C. Define "preheating" and "postheating" of a weldment.
- D. Demonstrate personal protection.
- E. Demonstrate how to properly prepare pipe for welding.
- F. Select the proper filler metal for specified metals.
- G. Demonstrate how to weld an open root welding joint and how to properly clean the welds between passes.
- H. Prepare a welded pipe joint for testing.

ASSESSMENT METHOD CRITERIA FOR SUCCESS (YR 2)

1. SLO (A - H) - give students a written case and have them to list, setup, describe, define and demonstrate the safe and proper way to weld pipe using the GTAW process.

70% of students assessed should receive a passing grade.