

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<u>Welding</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>WLDG 1407</u>
<b>COURSE TITLE</b>	<u>Introduction to Welding Using Multiple Processes</u>
<b>COURSE CREDIT HOURS</b>	<u>4            3    :    3</u> Credits    Lec    Lab

**I. Course Description**

Studies basic welding techniques using some of the following processes: oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten arc welding (GTAW). Emphasizes development of basic welding techniques and good joint preparation using low carbon steel. Includes OSHA 10 safety course, 10 hours of construction safety and fall protection. **(3:3). Lab fee.**

**II. Course Objectives**

- A. Set up welding machines.
- B. Practice basic shop safety.
- C. Identify types of electrodes used in welding processes.
- D. Define various welding and cutting standards.
- E. Demonstrate proper joint preparation techniques.
- F. Complete welds using OXY – FUEL, SMAW, GMAW, and GTAW.

**III. THECB Learning Outcomes (WECM)**

1. Demonstrate machine set-up and complete welds and cutting operations.
2. Demonstrate basic shop safety.
3. Identify types of consumables used in welding processes.
4. Identify various welding and cutting practices.
5. Demonstrate proper joint preparation techniques.

**IV. Evaluation**

The knowledge and skills stated in the objective must be demonstrated by the students in the form of tests and assignments in order to complete the course. Test (50%) and lab assignments (50%) will be averaged, letter grades will be arranged as follows:

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Students should be able to compute their grade average anytime during the course. Missed assignments and make-up tests will be given at the discretion of the instructor.

**V. Disability Statement (Americans with Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

**VI. 6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

**VII. Title IX and Sex Discrimination**

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.