

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

<b>SUBJECT AREA</b>	<b>Welding</b>						
<b>COURSE RUBRIC AND NUMBER</b>	<b>WLDG 1457</b>						
<b>COURSE TITLE</b>	<b>Intermediate Shielded Metal Arc Welding (SMAW)</b>						
<b>COURSE CREDIT HOURS</b>	<table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;"><b>4</b></td> <td style="width: 33%;"><b>2</b></td> <td style="width: 33%;"><b>4</b></td> </tr> <tr> <td><b>Credits</b></td> <td><b>Lec</b></td> <td><b>Lab</b></td> </tr> </table>	<b>4</b>	<b>2</b>	<b>4</b>	<b>Credits</b>	<b>Lec</b>	<b>Lab</b>
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<b>Credits</b>	<b>Lec</b>	<b>Lab</b>					

**I. Course Description**

Studies the production of various fillets and groove welds. Prepares specimens for testing in various positions. Emphasizes development of multi-pass welding techniques. **Prerequisite: WDLG 1407. (2:4). Lab fee.**

**II. Course Objectives**

- a. Identify principles of arc welding
- b. Demonstrate use of tools and equipment
- c. Describe arc welding operations of fillet and groove joints
- d. Explain heat treatments of low alloy steels
- e. Explain weld size and profiles
- f. Prepare test plates
- g. Perform fillet welds in the overhead position
- h. Perform bevel groove welds with backing plates in various positions

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

1. Identify principles of arc welding.
2. Describe arc welding operations of fillet and groove joints.
3. Explain heat treatments of low alloy steels.
4. Explain weld size and profiles.
5. Prepare test plates.
6. Perform fillet welds in the overhead position.
7. Perform air carbon arc weld removal.
8. Perform bevel groove welds with backing plates in various positions.
9. Demonstrate use of tools and equipment.

**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

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.