

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

SUBJECT AREA	Machining Technology-Welding
COURSE RUBRIC AND NUMBER	WLDG 1407
COURSE TITLE	Introduction to Welding Using Multiple Processes
COURSE CREDIT HOURS	4 3 : 3 Credits Lec Lab

I. Course Description

Studies the 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), and gas tungsten arc welding (GTAW). Emphasizes development of basic welding techniques and good joint preparation using low carbon steel. **(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.
- 2. Complete welds and cutting operations.
- 3. Demonstrate basic shop safety.
- 4. Identify types of electrodes used in welding processes.
- 5. Identify various welding and cutting standards.
- 6. 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.