

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Welding</u> |
| COURSE RUBRIC AND NUMBER | <u>WLDG 1327</u> |
| COURSE TITLE | <u>Welding Codes and Standards</u> |
| COURSE CREDIT HOURS | <u>3 3 1</u> |
| | Credits Lec Lab |

I. Course Description

Provides an in-depth study of welding codes and their development in accordance with structural standards, welding processes destructive and nondestructive test methods. Emphasizes symbols, and the practical implementation of AWS D1.1, API 1104 and ASME welding codes. Hands-on lab includes preparation for welder certification. **(3:1)**.

II. Course Objectives

- a. Categorize major codes
- b. Identify welding procedures
- c. Identify welding and NDT symbols
- d. List responsibilities of inspectors
- e. Evaluate post weld heat treatments and destructive testing
- f. List alloys/phases of metals and state effects of heating and cooling
- g. Apply preweld, in-process and shop inspection standards
- h. Develop welding procedures
- i. Calculate preheat and postweld heat treatments
- j. Identify NDT test methods and welding discontinuities

III. THECB Learning Outcomes (WECM)

1. Interpret codes and standards.
2. Interpret welding symbols.
3. Apply pre-weld, in-process, and shop inspection standards.
4. Develop welding procedures.
5. Calculate preheat and post-weld heat treatments.

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:

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|--------|---|
| 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.