

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Electrical Technology</u>
COURSE RUBRIC AND NUMBER	<u>ELPT 2325</u>
COURSE TITLE	<u>National Electrical Code II</u>
COURSE CREDIT HOURS	<u>3 3 :</u> Credits Lec Lab

I. Catalog Description

In-depth coverage of the National Electrical Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring protection and methods, special conditions, and advanced calculations. Prepares students to take the Journeyman Electrical exam upon successful completion of all Texas Department of Licensing and Regulation requirements. It is highly recommended that students complete ELPT 1325 before registering for this course. **(3:1)**.

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Navigate the National Electrical Code (NEC).
- B. Identify special occupancies of hazardous (classified) locations under Article 500.
- C. Recognize special equipment for electrical signs and outline lighting under Article 700.
- D. Develop communication circuits and systems under Article 800.
- E. Perform box/conduit fill calculations.
- F. Perform conduit bending.
- G. Emphasis on sizing grounding and bonding conductors using NEC tables.
- H. Sizing main and system bonding jumpers using NEC tables.
- I. Size grounding electrode conductors using NEC tables.
- J. Calculate available Fault Current.

III. THECB Learning Outcomes (WECM)

1. Explain hazardous location classifications and divisions and wiring methods allowed in these locations.
2. State the rules for electrical installation in special locations.
3. Calculate conductor sizes and overload protection required for residential, commercial, and industrial locations.
4. Select appropriate sections in the NEC for specific applications.

IV. Evaluation

The students must demonstrate the knowledge and skills stated in the objective in order to complete the course. 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.