

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u>Electrical Technology</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>ELPT 2325</u>
<b>COURSE TITLE</b>	<u>National Electrical Code II</u>
<b>COURSE CREDIT HOURS</b>	<u>3            3    :    1</u>
	<b>Credits            Lec            Lab</b>

**I. Catalog Description**

Provides in-depth coverage of the study of the National Electrical Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasizes wiring protection and methods, special conditions, and advanced calculations. Emphasizes preparation for the Texas Journeyman Electrician exam.

**Prerequisite: ELPT 1325. (3:1).**

**II. Course Objectives**

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

- A. Define electrical terms
- B. Interpret working drawings for wiring and protection of the electrical circuits.
- C. Apply various methods and materials (Article 300).
- D. Recognize the different types of equipment for general use of flexible cords and cables (Article 400).
- E. Identify special occupancies of hazardous (classified) locations under Article 500.
- F. Recognize special equipment for electrical signs and outline lighting under Article 700.
- G. Develop communication circuits and systems under Article 800.
- H. Perform box/conduit fill calculations.
- I. Employ correct conduit bending methods.
- J. Emphasis on grounding.

**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.