

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Renewable Energy</u>								
COURSE RUBRIC AND NUMBER	<u>EEIR 1309</u>								
COURSE TITLE	<u>National Electrical Code</u>								
CONTACT HOURS	<table style="margin: auto; border: none;"> <tr> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">:</td> <td style="padding: 0 10px;">1</td> </tr> <tr> <td style="padding: 0 10px; font-size: small;">Credits</td> <td style="padding: 0 10px; font-size: small;">Lec</td> <td></td> <td style="padding: 0 10px; font-size: small;">Lab</td> </tr> </table>	3	3	:	1	Credits	Lec		Lab
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Credits	Lec		Lab						

I. Catalog Description

Provides an interpretation of the National Electrical Code for residential, commercial and industrial wiring. Emphasis on designing, constructing, and troubleshooting electrical systems. **(3:1). Lab fee.**

II. Course Objectives

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

- A. Apply the National Electrical Code and define electrical terms
- B. Identify the requirements for electrical installations
- C. Use and identify grounded conductors
- D. Install service entrance conductors and equipment
- E. Install overcurrent protection
- F. Identify general requirements for grounding and bonding
- G. Identify conductors for general wiring and wiring methods
- H. Install cabinets, cutout boxes, and meter socket enclosures
- I. Install various types of conduit
- J. Identify the equipment and its general uses
- K. Install solar photovoltaic (PV) systems to include circuit requirements, disconnecting means, wiring methods, grounding, marking, and storage batteries

III. THECB Learning Outcomes (WECM)

- 1. Apply the National Electrical Code to basic wiring procedures.
- 2. Design electrical systems according to the National Electrical Code.
- 3. Construct and troubleshoot electrical circuits.
- 4. Use proper tools and equipment for constructing circuits.

IV. Evaluation

The students must demonstrate the knowledge and skills stated in the objectives in order to complete the course. Letter grades will be arranged as follows:

Grade Scale:

- 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.