

# 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>ENTC 2439</u>
<b>COURSE TITLE</b>	<u>Facility Operation and Maintenance II</u>
<b>COURSE CREDIT HOURS</b>	<u>4                    3    :    3</u> Credits            Lec            Lab

**I. Catalog Description**

Provides a study of the requirements of building electrical systems, fire codes, lighting distribution, power sources, alarm systems, and interior and exterior communication. **Prerequisite: ENTC 2414. (3:3). Lab fee.**

**II. Course Objectives**

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

- A. Practice the basic safety procedures for working on electrical systems.
- B. Identify electrical system components.
- C. Describe and maintain alarm and communication systems.
- D. Define the project requirements from contract documents.
- E. Determine the required number of branch circuits for a set of loads.
- F. Determine the correct rating branch circuit loads and the preferred type of wire and size of the conductor for the branch circuit.
- G. Select the switches, receptacles, and raceways for the branch circuits.
- H. Determine the branch circuits for appliance and utilization equipment.
- I. Maintain emergency power system.
- J. Describe the basic structure of data, voice, and video system.
- K. Identify NEC requirements.

**III. THECB Learning Outcomes (WECM)**

- 1. Evaluate electrical system components.
- 2. Evaluate alarm and communication system components.
- 3. Operate a computer-aided facility management system.

**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.