

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	Electrical Technology
COURSE RUBRIC AND NUMBER	ELPT 1370
COURSE TITLE	Introduction to Electrical Blueprint Reading
COURSE CREDIT HOURS	3 2 :
	Credits Lec Lab

I. Catalog Description

Discusses the theory and the terminology required to interpret working drawings in the electrical field. Focuses on blueprint reading and implementing electrical installation requirements in residential, commercial and industrial applications per the National Electrical Code. Includes instruments of measurement, industry standards and procedures. **(2:2)**.

II. Course Objectives

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

- A. Navigate the National Electrical Code (NEC).
- B. Coordinate Local and National Electrical Codes with electrical drawings.
- C. Illustrate the use of lines in a drawing.
- D. Interpret dimension lines.
- E. Interpret construction drawings correctly.
- F. Demonstrate the correct use of measuring instruments.
- G. Identify blue print symbols.
- H. Interpret scale.
- I. Identify section views.
- J. Interpret specifications for residential and commercial drawings.
- K. Interpret title block.
- L. Demonstrate proper rough-in procedures and analyze for possible obstructions.
- M. Interpret working drawings for wiring and protection of the electrical circuits.
- N. Label panel directories.
- O. Identify residential branch circuit requirements (e.g. receptacles and lighting) using the NEC.
- P. Maintain Blueprint documents.

III. THECB Learning Outcomes (WECM)

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

- 1. Define terms and abbreviations
- 2. Interpret symbols
- 3. Read Electrical Detail drawings
- 4. Read Construction Detail Drawings
interpret scale and demonstrate the proper use of measuring devices
- 5. Read and interpret blueprint construction drawings correctly
- 6. Demonstrate proper rough-in procedures.

7. Coordinate Local and National Electrical Codes with electrical drawings
8. Interpret specifications for residential and commercial drawings
9. Identify power and lighting requirements in residential and commercial installations

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.