

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Electrical Technology</u>
COURSE RUBRIC AND NUMBER	<u>ENTC 2414</u>
COURSE TITLE	<u>Facility Operation and Maintenance I</u>
COURSE CREDIT HOURS	<u>4 3 : 3</u> Credits Lec Lab

I. Catalog Description

Provides the management of the interaction among facility, people, equipment, operation, service, and maintenance. Includes topics on building structure and interior elements, air conditioning, furniture, grounds, and waste management. **(3:3). Lab fee.**

II. Course Objectives

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

- A. Navigate the National Electrical Code (NEC).
- B. Implement proper code grounding and bonding using NEC tables.
- C. Size conductors using NEC tables.
- D. Perform Conduit Bending.
- E. Install different wiring methods.
- F. Perform box fill calculations.
- G. Inspect and detect electrical/mechanical deficiencies using the NEC.
- H. Develop electrical preventive maintenance plans.
- I. Interpret blueprints for circuit installation or modification.
- J. Introduction on the installation, description of Solar Panel systems and wind-generated systems.
- K. Demonstrate basic carpentry skills.
- L. Introduction to Automation Technology.

III. THECB Learning Outcomes (WECM)

- 1. Identify building mechanical systems and related technologies.
- 2. Design a facility maintenance program; develop an inventory management plan.
- 3. Develop a security plan.
- 4. Assess the effectiveness of the facility maintenance program.

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	70-79	C	0-59	F
80-89	B	60-69	D		

Students should be able to compute their grade average any time 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.