# El Paso Community College Syllabus Part II Official Course Description

SUBJECT AREA	Electrical Technology ELTN 1343		
COURSE RUBRIC AND NUMBER			
COURSE TITLE	Electrical Troubleshooting		
COURSE CREDIT HOURS	3 2 : 2 Credits Lec Lab		

## I. Catalog Description

Introduces the maintenance, theory of operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems. (2:2). Lab fee.

#### II. Course Objectives

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

- A. Safely identify and troubleshoot various electrical systems and equipment.
- B. Identify short circuits, open circuits, and grounded circuits.
- C. Determine proper electromechanical sequence of work.
- D. Identify and troubleshoot electrical control/system
- E. Review existing preventive maintenance plan.
- F. Interview user/operator about prior conditions.
- G. Develop troubleshooting skills for new technologies.
- H. Identify NEC requirements.

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

- 1. Use multimeters to perform tests on electrical equipment.
- 2. Discuss various types of circuits and electrical systems.
- 3. Demonstrate the proper way to test transformers and motors.
- 4. Identify a short circuit, open circuit, and a closed circuit; and troubleshoot electric motors and control circuits.

#### 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	В	60-69	D		

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.

Revised by Discipline: Fall 2012 (next revision in 3 years)