



IMPERIAL VALLEY COLLEGE

FALL 2012

SYLLABUS

Course Information

Course Title	Electrical Principles	Units 4
Course Number	EWIR 125	
Course Discipline	Teacher Education	
Course Description	This course includes instruction in feeder Service and branch load calculations for Circuits and electrical appliances; Introduction to and identification of <i>Electrical conductors ; devices used for overprotection of currents loads, , and fuses ; fill requierements for boxes and raceways ;principles of wiring devi- ces,switches and receptacles and their locations; requirements for distribution equipment; settings for voltage ,switch gear,circuits and components ;distribution system transformers and their characte- ristics,models and types ;NEC 2011 requirements; methods for locating problems and troubleshooting.</i>	
Student Learning Outcomes	SLO # 1 describe services and feeders sys. SLO #2 learn to search NEC for codes SLO # 3 loads and overcurrent calculations SLO # 4 hability for used troubleshooting techniques. SLO # 5 obey all electrical basic safety ru- les, base in OSHA regulations.	

Upon course completion, the successful student will have acquired new skills and knowledge in services and feeders and load sizes calculations, he will be able to do any electrical job under minimum, Journeyman supervision. The student will be able to follow any technical instruction on the worksite.

Prerequisites

EWIR 110 and EWIR 115

Grading Policies and Procedures

Assignments and Reviews must be completed by their due date or they will receive, no credit. You will receive notification of points earned on each assignment or reviews individual test, for support and help in the Mid Term and Final Shop practices, must be observed basic Safety rules by teacher instructions

Homework	10 %
Shop Practices	25 %
Mid-Term	35 %
Final	30 %

100 %

Additional Information

70% minimum or more to pass.

Students can be suspended if he found cheating or if he is disturbing or is disrespectful in class, inappropriate language in class is not permitted cell-phone or Ipad are not permitted in class, prohibitive to eat during class or shop process.

**Accommodation
Disables Persons**

Disabled Student Program and Services
(On Duty if upon request)

Testbook required

Modern Commercial Wiring
by Nancy Henke-Konopasek
Harvey N. Holz (Based on the NEC 2011)

Recommended
Support/books

Safe work practices for the electrician
Ray A. Jones Jane G. Jones

Illustrated guide to the NEC code
4th edition by Charles R. Miller

National Electrical Code edition 2011

Professor

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