



Course Information

Course Title	Residential Wiring
Course Prefix, Num. and Title	ELPT 1329 Residential Wiring
Division	Vocational Science
Department	Air Conditioning, Heating, Refrigeration and Electrical Technology
Course Type	WECM Course
Course Catalog Description	Wiring methods for single family and multi-family dwellings. Include load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.
Pre-Requisites	None
Co-Requisites	Enter Co-Requisites Here.

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:1:7
Lab/Other Hours	
Equated Pay Hours	4.5
Lab/Other Hours Breakdown: Lab Hours	7
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

- circuit sizing
- installation practices
- grounding needs
- ground faults
- safety procedures

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

(1) Compute the circuit sizes needed for the installation of branch circuits, feeders, and service entrance conductors

(2) Explain the proper installation of wiring devices according to electrical codes

(3) Demonstrate grounding needs

(4) Install ground fault circuits

(5) Identify residential wiring methods and demonstrate proper safety procedures

Methods of Assessment:

1) Classroom and lab exercises, and quiz and examination questions

2) Classroom and lab exercises, and quiz and examination questions

3) Classroom and lab exercises, and quiz and examination questions

4) Classroom and lab exercises, and quiz and examination questions

5) Classroom and lab exercises, and quiz and examination questions

Required text(s), optional text(s) and/or materials to be supplied by the student:

Electrical Wiring Residential

Delmar Cengage Learning ISBN 13:978-1-4354-9826-6

Suggested Course Maximum:

30

List any specific or physical requirements beyond a typical classroom required to teach the course.

Air Conditioning, Heating, Refrigeration, and Electrical – Lab

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

90% to 100%	= A
80% to 89%	= B
70% to 79%	= C
60% to 69%	= D
Below 60%	= F

The semester final grade is based on the percentage basis between daily lab work, daily classroom assignments, and semester final.

Daily lab work counts for 50% of final: Daily Classroom work is 20% of final: End of semester written final and lab final is 30% of final average.

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist