



Course Information

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| Course Title | Commercial Wiring |
| Course Prefix, Num. and Title | ELPT 1345 Commercial Wiring |
| Division | Vocational science |
| Department | Air Conditioning, Heating, Refrigeration and Electrical Technology |
| Course Type | WECM Course |
| Course Catalog Description | Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. |
| Pre-Requisites | ELPT 1321 and ELPT 1325; or Program Director Approval |
| Co-Requisites | Enter Co-Requisites Here. |

Semester Credit Hours

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| 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).

- blueprint/drawing
- circuit sizing
- NEC code
- wiring methods
- safety

Course Learning Outcomes:

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

- (1) Interpret electrical blueprint/drawings
- (2) Compute the circuit sizes and overcurrent protection needed for the installation of branch circuits, feeders, and service entrance conductors
- (3) Explain the proper installation of wiring devices according to the National Electrical Code and local electrical codes
- (4) Demonstrate grounding methods
- (5) Identify commercial wiring methods including conduit bending and proper safety procedures

Methods of Assessment:

- 1) Classroom and lab exercises, quiz and examination questions
- 2) Classroom and lab exercises, quiz and examination questions
- 3) Classroom and lab exercises, quiz and examination questions
- 4) Classroom and lab exercises, quiz and examination questions
- 5) Classroom and lab exercises, quiz and examination questions

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

Electrical Wiring Commercial Delmar Cengage Learning ISBN 13:978-1-4354-9829-7

Suggested Course Maximum:

30

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

Fully equipped HVAC 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.

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|-------------|-----|
| 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