Wharton County Junior College

Administrative Master Syllabus

Course Information

Course Title	National Electrical Code I
Course Prefix, Num. and Title	ELPT 1325 National Electrical Code I
Division	Vocational Science
Department	Air Conditioning, Heating, Refrigeration and Electrical Technology
Course Type	WECM Course
Course Catalog Description	An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations
Pre-Requisites	None
Co-Requisites	Enter Co-Requisites Here.

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours: Lab/Other Hours	3:2:2
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	2
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:	Robert Sanchez Digitally signed by Robert Sanchez Date: 2020.08.21 08:27:44 -05'00'	08-21-2020
Department Head:	Robert Sanchez Digitally signed by Robert Sanchez Date: 2020.08.21 08:15:36 -05'00'	08-21-2020
Division Chair:	Timothy Guin Digitally signed by Timothy Guin DN: cn=Timothy Guin, o=Division Chair, ou=VOCS, email=guint@wcjc.edu, c=US Date: 2020.08.21 14:01:48 -05'00'	08-21-2020
Dean/VPI:	Paul Quinn Digitally signed by Paul Quinn DN: cn=Paul Quinn, o=DVI, ou=WCJC, email=quinnp@wcjc.edu, c=US Date: 2020.08.25 12:37:52 -05'00'	
Approved by CIR:	Paul Quinn Digitally signed by Paul Quinn DN: cn=Paul Quinn, o=DVI, ou=WCJC, email=quinnp@wcjc.edu, c=US Date: 2020.08.25 12:38:11 -05'00'	

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).

- Sizing of conductors
- Boxes
- Raceways
- Conductors
- Overcurrent protection
- Service
- Branch circuits

Course Learning Outcomes:

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

1) Locate and interpret the sections in the NEC that pertain to electrical installations
(2) Calculate the size of conductors, boxes, raceways, and overcurrent protective devices for branch circuits supplying electrical equipment
(3) Calculate conductors, overcurrent protection, and service equipment as applied to building services
(4) Compute the size of branch circuits, feeders, and equipment for motors

Methods of Assessment:

1) Classroom quiz and examination questions
2) Classroom quiz and examination questions
3) Classroom quiz and examination questions
4) Classroom quiz and examination questions

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

NEC Code ISBN 13:978-087765790-3

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