COURSE INFORMATION FORM

DISCIPLINE
INTE

COURSE TITLE
National Electric Code (NEC)

CR.HR 3 LECT HR. 3 LAB HR. CLIN/INTERN HR. CLOCK HR.

CATALOG DESCRIPTION
This course is designed to present the requirements of the National Electric Code. Topics include requirements, codes, wiring requirements, conduit, hazardous locations, overcurrent protection, motor protection, installations and safety.

PREREQUISITES
INTE 113

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Apply the requirements of the NEC to electrical installations.
2. Select overcurrent equipment.
3. Select proper wire sizes and types.
4. Identify proper residential electrical installations.
5. Identify proper light commercial electrical installations.
6. Select proper transformers.
7. Identify proper electrical control equipment for motors.
8. Identify correct wiring including grounding and ground fault interrupters.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written Examinations (1 – 8)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. General electrical installations
   A. Workmanship
   B. Terminations
   C. Wire sizing general
   D. Wire identification

II. Overcome protection
   A. Service entry
   B. Branches
   C. Motors

III. Wire selection
   A. Ampacity
   B. Environmental considerations

IV. Residential
   A. General lighting
   B. Appliances
   C. GFCI requirements
   D. Grounding

V. Commercial
   A. General lighting
   B. GFCI requirements
   C. Grounding
   D. Motors