COURSE INFORMATION FORM

DISCIPLINE
INTE

COURSE TITLE
Pole Framing and Construction Specifications

CR.HR 3       LECT HR 1       LAB HR 4       CLIN/INTERN HR 0       CLOCK HR 0

CATALOG DESCRIPTION
This will give the student a working knowledge of the line construction specifications and knowledge of pole framing on the ground and aerial framing. The student will be able to recognize the different types of materials used for the different types of construction by sight and definition. They will also be introduced to the different sizes and types of overhead and underground conductors.

PREREQUISITES
LINE 104 & LINE 106

EXPECTED STUDENT OUTCOMES IN THE COURSE
Upon completion of this course, the student will be able to:
1. Demonstrate the working specification knowledge both in an aerial and a ground situation.
2. Describe the definition of design specifications.
3. Demonstrate an understanding of and skill in the installation and repair of conductors, guy assemblies, cross arms, and insulators.
4. Demonstrate an understanding of copper and aluminum primary conductor characteristics and safety considerations for both types of conductors.
5. Describe the different aspects of 7,200; 12,500; 14,400 and 34,500 volt construction.
CLASS-LEVEL ASSESSMENT MEASURES

Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

Written Tests: 1 - 5
Assignments: 1 - 5

PROGRAM-LEVEL OUTCOMES ADDRESSED

General Education Outcomes
Specify which general education outcomes, if any, are substantially addressed by the course by completing the “Course/Program Assessment Matrix” to show the relationship between course and program outcomes and assessment measures.

Occupational Program Outcomes
Specify which occupational program outcomes, if any, are substantially addressed by the course by completing the “Course/Program Assessment Matrix” to show the relationship between course and program outcomes to assessment measures.
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. Safety hazards and precautions

II. Definition of framing
   A. Special conditions
   B. Technical specifications
   C. Engineering specifications
   D. Techniques
      1. On ground
      2. In air
      3. Hot

III. Pole Types
    A. Wood
    B. Metal
    C. Concrete
    D. Fiberglass

IV. Pole Support
    A. Guying
    B. Depth
    C. Soil conditions

V. Voltage considerations
    A. Height and separation distance
    B. Cabling

VI. Assembly
    A. Tools
    B. Equipment
    C. Termination of cables
    D. Suspension of cables