

Master Syllabus

EET 1181 - Electrical Construction I

Division: Science, Mathematics and Engineering

Department: Electronics Engineering Technology

Credit Hour Total: 2.0 - 3.0

Lecture Hrs: 1.0 **Lab Hrs:** 6.0

Date Revised: November 2013

Course Description:

Basic safety procedures, use of hand and power tools; electrical circuit theory; use of test equipment; basics of residential, commercial and industrial wiring observing National Electric Code (NEC). One classroom, six lab hours per week

General Education Outcomes:

- ▣ Critical Thinking/Problem Solving
- ▣ Information Literacy

Course Outcomes:

Hand and power tools

Demonstrate safe and effective use of hand and power tools.

Assessment Method: Locally developed exams

Performance Criteria: Earn 70% or better

Blueprints

Demonstrate blueprint reading.

Assessment Method: Behavioral observations

Performance Criteria: Score 17.5 on a five by five rubric

National Electric Code

Demonstrate knowledge of National Electric Code.

Assessment Method: Standardized national examinations

Performance Criteria: Earn 80% or better

Wire electrical circuits

Demonstrate ability to wire basic electrical circuits.

Assessment Method: Locally developed exams

Performance Criteria: Earn 70% or better

Outline:

Mechanical and electrical safety
Use of hand and power tools
Blueprint reading
Basic rigging techniques
Electrical circuits
Introduction to NEC
Raceways, boxes, and fittings
Residential, commercial, and industrial wiring techniques