

## 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

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#### 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 Competency
- ▣ Information Literacy Competency

#### 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