

## Master Syllabus

### EET 1182 - Electrical Construction II

**Division:** Science, Mathematics and Engineering

**Department:** Electronics Engineering Technology

**Credit Hour Total:** 2.0 - 3.0

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

**Prerequisite(s):** EET 1181

**Date Revised:** January 2015

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### Course Description:

Alternating current theory, motors, grounding, conduit bending, conductor installation, National Electric Code (NEC) for cables, terminations and splices, electrical single and three phase installation, circuit breakers and fuses, contactors and relays. One classroom, six lab hours per week.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### AC circuit quantities

Calculate basic AC circuit quantities.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Earn 70% or higher

#### Protective devices

Install and replace circuit protective devices.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Earn 70% or higher

#### Electrical circuit repair

Install, troubleshoot and repair electrical circuits.

**Assessment Method:** Performance appraisals

**Performance Criteria:** Obtain at least a "3.5" on a 5 point rubric

### Outline:

Motors: theory and operation  
Grounding and bonding electrical circuits  
Boxes and fittings  
Cable reels and cable tray installation  
Single- and three-phase service installation  
Contactors and relays  
Handling and installation of various kinds of lamps and lighting fixtures