

## Master Syllabus

### EET 1183 - Electrical Construction III

**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 1182

**Date Revised:** January 2015

---

### Course Description:

Load calculations for branch circuits, overcurrent protection, wiring devices, distribution equipment, transformers, calculations for motor circuits: motor maintenance and controls and basics of HVAC systems. One classroom, six lab hours per week.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Repair motor support circuits

Troubleshoot and repair motor support circuits.

**Assessment Method:** Locally developed exams

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

#### Circuit installation

Install basic electrical circuits.

**Assessment Method:** Locally developed exams

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

#### Motor control circuits

Install and maintain motor control circuits.

**Assessment Method:** Locally developed exams

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

### Outline:

Calculate loads for residential and commercial loads  
Conductor selections  
Overcurrent protection  
Wiring devices  
Distribution equipment and transformers  
Lamps, ballasts and components  
Motor controls and maintenance  
Basics of HVAC systems  
Hazardous locations