

## Master Syllabus

### EET 1184 - Electrical Construction IV

**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 1183

**Date Revised:** November 2013

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### Course Description:

Calculation procedures for residential, commercial and farming applications, various wiring systems, stand-by and emergency systems, basic electronics, fire alarms, special transformers, solid-state controls, welding techniques, heat and freeze protection and high-voltage termination. One classroom, six lab hours per week.

### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Motor Installation and Wiring

Correctly replace or install new motors and associated circuits.

**Assessment Method:** Locally developed exams

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

#### Load Calculations

Calculate loads for heavy equipment and high voltage circuits.

**Assessment Method:** Locally developed exams

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

#### Motor Repair

Troubleshoot and repair motors using solid-state methods.

**Assessment Method:** Locally developed exams

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

### Outline:

Feeders and services  
Standby and emergency systems  
Fire alarm systems  
Special transformers (current, constant-current potential, and shielded)  
Solid-state control circuits  
HVAC controls  
Welding machines  
High voltage termination/splices  
Advanced motor maintenance