

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

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

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