

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