

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

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