

Master Syllabus

CAT 1810 - Construction Techniques I (NCCER Core)

Division: Science, Mathematics and Engineering

Department: Civil Engineering Technology

Credit Hour Total: 3.0

Lecture Hrs: 1.0 **Lab Hrs:** 4.0

Other Prerequisite(s): Approval of Department

Date Revised: January 2014

Course Description:

Basic safety, hand and power tools, wood building materials and fasteners and framing systems. May be taken for two semesters. One classroom, four lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Construct floor, wall and roof systems

Use hand tools and power tools to construct floor, wall and roof systems.

Assessment Method: Behavioral observations

Performance Criteria:

80% or more of available points

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Orientation to construction

Identify the major work elements on a typical construction site.

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Safety practices

Demonstrate safety practices on a construction site.

Assessment Method: Behavioral observations

Performance Criteria:

100% compliance with safety requirements

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Outline:

Orientation to construction

Wood building materials and fasteners

Hand and power tools

Floor systems

Wall and ceiling framing

Roof framing

Windows and exterior doors