

## 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

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### 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