

## Master Syllabus

### CAT 1781 - Construction Project

**Division:** Science, Mathematics and Engineering

**Department:** Civil Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 6.0

**Prerequisite(s):** CAT 1701 OR CAT 2431

**Date Revised:** February 2014

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### Course Description:

Students will work on a significant construction project such as a home for Habitat for Humanity. This course gives students hands-on experience in all phases of a construction project. Most class sessions will be at a construction site in the Greater Dayton Metropolitan area. One classroom, six lab hours per week.

### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Information Literacy Competency
- ▣ Values/Citizenship/Community Competency

### Course Outcomes:

#### Safety review

Identify construction safety issues for the work site.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses

#### Inspection

Perform an inspection to ensure quality and functionality of completed work.

**Assessment Method:** Behavioral observations

**Performance Criteria:** Score at least "9" out of 10 on a grading rubric

#### Construction

Perform construction work safely and properly.

**Assessment Method:** Behavioral observations

**Performance Criteria:** 80% or higher of available points on evaluation form

### Outline:

Project overview  
Safety review  
Work planning  
Construction  
Inspection