

## Master Syllabus

### CAT 1201 - Construction Methods & Materials

**Division:** Science, Mathematics and Engineering

**Department:** Civil Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 3.0

**Date Revised:** January 2015

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#### Course Description:

Construction methods of materials for both residential and commercial structures. Emphasis on processes and techniques. Understanding of blueprint reading of architectural and civil drawings. Hands-on exercises of residential and commercial applications. Three classroom, three lab hours per week.

#### General Education Outcomes:

- ❑ Oral Communication Competency
- ❑ Written Communication Competency
- ❑ Critical Thinking/Problem Solving Competency
- ❑ Information Literacy Competency
- ❑ Values/Citizenship/Community Competency
- ❑ Computer Literacy Competency

#### Course Outcomes:

##### Common Building Materials

Know the origin, development and use of common building materials.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

##### Industry Personnel

Identify the people involved in the construction industry.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

##### Safety

Fulfill requirements for OSHA 10 hour card.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

##### Terminology of Building Construction

Define the terminology related to the building construction industry.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

##### Teamwork

Work effectively in teams to complete hands-on lab activities.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

70% performance against teamwork rubric

##### Read Architectural Blueprints

read and interpret architectural blueprints.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

##### Methods of Construction

Compare methods of construction used in buildings.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% correct score on exams.

#### Outline:

Site construction

Concrete

Metals

Masonry

Woods

Plastics

Mechanical and Electrical Specialties

Special Construction