

## Master Syllabus

### CAT 1201 - Construction Methods & Materials

**Division:** Science, Mathematics and Engineering

**Department:** Civil Architectural Technology

**Credit Hour Total:** 5.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 4.0

**Date Revised:** June 2014

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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, four lab hours per week.

### General Education Outcomes:

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

### Course Outcomes:

#### 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

Demonstrate basic understanding of 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.

#### 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.

#### 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.

#### Industry Personnel

Identify the people involved in the construction industry.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% correct score on exams.

### Outline:

Site construction Concrete Metals Masonry Woods and Plastics Mechanical Electrical Specialties and Special Construction