

## Master Syllabus

### **CAT 1161 - Introduction to Civil & Architectural Technology**

**Division:** Science, Mathematics and Engineering

**Department:** Civil Engineering Technology

**Credit Hour Total:** 2.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 2.0

**Date Revised:** May 2013

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#### **Course Description:**

An introduction to career fields of Architecture and Civil Engineering Technology. Equivalent to Project Lead the Way CEA. One classroom, two lab hours per week.

#### **General Education Outcomes:**

- ▣ Critical Thinking/Problem Solving Competency

#### **Course Outcomes:**

##### **Careers**

Describe careers in architecture, civil engineering and construction management technology.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Passing with 70% score or better.

##### **Planning Concepts**

Apply basic project planning concepts.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Passing with 70% score or better.

##### **Principles**

Demonstrate principles of architecture, site design, structural engineering and project management.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Passing with 70% score or better.

#### **Outline:**

Introduction and concept mapping

Bubble diagrams and floor plans

Architectural styles

Soil mechanics

Mechanical systems

Plumbing systems

Structural analysis

Surveying

Midterm

Energy systems

Major project