

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

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