

Master Syllabus

CAT 2411 - Building Codes, Laws & Specifications

Division: Science, Mathematics and Engineering

Department: Civil Engineering Technology

Credit Hour Total: 2.0

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

Prerequisite(s): CAT 1201

Date Revised: January 2015

Course Description:

Building code history, development, application and review processes. Analysis of existing building to determine code status, form recommendations and make presentation. Examine Ohio law impacting various codes, safety, contracting and personnel issues with regard to built environment professions. Develop sample contract specifications. One classroom, two lab hours per week.

General Education Outcomes:

- Oral Communication Competency
- Written Communication Competency
- Critical Thinking/Problem Solving Competency
- Information Literacy Competency

Course Outcomes:

Built Environment Law

Investigate and summarize legal implications of built environment ownership, contracting and operation. Compare and contrast legal responsibilities with ethical issues, including "green" building.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on exams

Assessment Method: Portfolios
Performance Criteria:

70% or better on presentation

Codes and Laws

Describe origin and development of various codes, including building, zoning and Americans with Disabilities Act (ADA). Compare and contrast enforcement of codes, applicability and jurisdictional issues.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on exams

Assessment Method: Portfolios
Performance Criteria:

70% or better on presentations

Permitting Process

Describe the building permitting process at a local jurisdiction. Apply knowledge to simulate documentation and application processes.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on exams

Assessment Method: Portfolios
Performance Criteria:

70% or better on presentations

Specifications

Develop basic specifications of discrete building systems using MasterFormat.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on exams

Assessment Method: Portfolios
Performance Criteria:

70% or better on presentations

Delivery Methodology

Compare and contrast delivery models, including traditional contracting, construction management and design build. Examine contracts and general conditions for each.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on exams

Outline:

History of building codes

Building analysis for code compliance

Building permit process

Ohio contracting law

Standard construction documentation

Legal processes and options

Liability and insurance

Professional practices

Accessibility- Americans with Disabilities Act (ADA)