# CNST A194: INTRODUCTION TO BUILDING CODES

| Item | Value |
|---|---|
| Curriculum Committee Approval Date | 12/02/2020 |
| Top Code | 095200 - Construction Crafts Technology |
| Units | 1.5 Total Units |
| Hours | 27 Total Hours (Lecture Hours 27) |
| Total Outside of Class Hours | 0 |
| Course Credit Status | Credit: Degree Applicable (D) |
| Material Fee | No |
| Basic Skills | Not Basic Skills (N) |
| Repeatable | No |
| Open Entry/Open Exit | No |
| Grading Policy | Standard Letter (S),<br>• Pass/No Pass (B) |

## Course Description

An introductory course in Building Codes. Covers building code development from model codes to state code adoptions. Topics include residential building, plumbing, mechanical and green codes. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Distinguish between the differenty codes and how they impact construction.
2. Apply code requirements for residential utilities.

## Course Objectives

- 1. Understand the difference between model codes and state codes.
- 2. Understand the adoption process of model codes.
- 3. Have a basic understanding of building and residential codes.
- 4. Have a basic understanding of residential utility codes.
- 5. Have a basic understanding of land usage and zoning codes.

## Lecture Content

I. INTRODUCTION A. Early Building Codes B. Model Codes C. Adoption of State and Local Codes II. PROPERTY DEVELOPMENT A. Building Department B. Zoning C. Conditional Use Permits D. Subdivisions III. BUILDING AND RESIDENTIAL CODES A. Permits B. Inspections C. Foundations D. Framing E. Interior and Exterior Finishes IV. UTILITIES A. Electrical B. Plumbing nb sp; C. Mechanical V. GREEN CODES A. CAL Green vs. LEED B. California Energy Code

## Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)

## Instructional Techniques

Instructional methodologies will include, but not necessarily be restricted to, the following: 1. Detailed multimedia/ lectures of each topic covered. 2. Student feedback during each lecture. 3. Detailed illustrative discussion of lecture handout and textbook information. 4. Building plan reading

## Reading Assignments

Students will be assigned a weekly reading assignment; approximately 1-2 hours per week.

## Writing Assignments

Students will complete a research paper on Code Development; approximately 10-15 hours over the duration of the course.

## Out-of-class Assignments

Students will have a homework assignment based on assigned reading; approximately 1-2 hours per week.

## Demonstration of Critical Thinking

Homework, tests and research paper.

## Required Writing, Problem Solving, Skills Demonstration

The completion of a student research paper in code development.

## Eligible Disciplines

Construction technology: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

## Textbooks Resources

1. Required International Code Council. California Residential Code, 2016 ed. Whittier: International Code Council, 2016