

BIT 320A: CALIFORNIA MECHANICAL CODES INTRODUCTION

New Course Proposal

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Originator

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Justification / Rationale

This course is Module 1 of 2 of a non-credit overlay version of Building Inspection Technology (BIT) 20 California Mechanical Codes. The non-credit version provides vocational skills training opportunities to the incumbent workforce and those currently underemployed or unemployed. This module presents the general requirement provisions, the need for regulation, navigating the California Code manual and the fundamentals of compliance.

Effective Term

Fall 2020

Credit Status

Noncredit

Subject

BIT - Building Inspection Technology

Course Number

320A

Full Course Title

California Mechanical Codes Introduction

Short Title

CA MECHANICAL CODES INTRO

Discipline

Disciplines List

Building Codes and Regulations (Inspecting of construction, building codes, contractor training)

Modality

Face-to-Face

100% Online

Catalog Description

This course covers California Building and Mechanical Codes used for construction, maintenance, and use of buildings and grounds within the State. It emphasizes an understanding of code sections and provisions and the relationships between building and mechanical codes.

Schedule Description

California Mechanical Codes used for construction, maintenance, and use of buildings and grounds within the State.

Non-credit Hours

54

Lecture Units

0

Lab Units

0

In-class Hours

18

Out-of-class Hours

36

Total Course Units

0

Total Semester Hours

54

Override Description

Noncredit courses do not have lecture and lab. The out of class hours were adjusted to provide the same total as the equivalent credit course.

Required Text and Other Instructional Materials**Resource Type**

Book

Author

California Building Standards Commission

Title

California Mechanical Code

Edition

latest

City

Sacramento

Publisher

International Association for Plumbing and Mechanical Officials

Year

2019

College Level

Yes

Flesch-Kincaid Level

12.4

ISBN #

9781938936944

Class Size Maximum

28

Course Content

1. Introduction.
2. General code requirement provisions for Mechanical Codes.
3. Requirements for types of construction.
4. Occupancy Building and Fire Code requirements and applications of the Mechanical Code.
5. Combustion and circulation air codes provisions.
6. Appliances regulated by the Mechanical Code and relationships in the Building Code.
7. Gas systems for mechanical code systems and Building Code priorities.
8. Handling and Classification of Hazardous Materials.

9. Responsibilities under Mechanical Codes.
10. Construction Materials Use in Mechanical Codes.
11. Maintenance of Buildings and Property.
12. Building Construction Processes.
13. Types of Construction.

Course Objectives

Objectives	
Objective 1	Understand the codes in construction, regulation, and design.
Objective 2	Discuss skills for employment in private or public construction fields as an inspector or plans examiner.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Cite code sections with relation to mechanical codes in construction, regulation and design.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Lecture	Presentation of topics in context.
Discussion	Classroom and group discussions of code applications and examples.
Participation	Class discussion and questions.
Other (Specify)	Presentation of construction materials.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Self-paced testing, Student preparation	Research appropriate mechanical codes for a residential building project and create a 10-minute presentation on the recommended solution and the research used to determine the solution.	Out of Class Only
Presentations/student demonstration observations	Present 10-minute mechanical code research project created out of class.	In Class Only
Student participation/contribution	Active participation in class and group discussions.	In Class Only
Group activity participation/observation	Evaluate student presentations on mechanical code examples and provide both supportive and critical comments verbally in class and as a written assignment out of class.	In and Out of Class
Student participation/contribution	Time quizzes out-of-class with discussion of correct answer in class.	In and Out of Class
Mid-term and final evaluations	Comprehensive exams covering the entire content of the class. Exams may include project analysis out of class or multiple choice and true/false questions in class.	In and Out of Class
Other	Out-of-class hours will be accounted for electronically through the learning management system.	Out of Class Only

Assignments

Other In-class Assignments

1. Presentation of class subjects and materials.
2. Review code sections.
3. Evaluate residential mechanical code examples.
4. Present research projects.

Other Out-of-class Assignments

1. Reading assignments of codes and handouts.
2. Review code sections presented in classes.
3. Visit construction sites.
4. Research mechanical code solutions to residential project situations.

Grade Methods

Pass/No Pass Only

Distance Education Checklist**Instructional Materials and Resources****Effective Student/Faculty Contact**

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Timely feedback and return of student work as specified in the syllabus
Discussion forums with substantive instructor participation
Chat room/instant messaging
Regular virtual office hours
Online quizzes and examinations
Weekly announcements

External to Course Management System:

Direct e-mail

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Students and instructor will participate in individual and group discussion using Canvas, students will complete online timed quizzes and overall results will be reviewed with the class.

Other Information**MIS Course Data****CIP Code**

46.0403 - Building/Home/Construction Inspection/Inspector.

TOP Code

095720 - Construction Inspection

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Other Non-credit Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Short-Term Vocational

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Noncredit courses are repeatable until students are comfortable they have achieved the skills and knowledge to meet the objectives and outcomes of the course.

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

10/17/2019

Academic Senate Approval Date

10/24/2019

Board of Trustees Approval Date

11/13/2019

Chancellor's Office Approval Date

01/10/2020

Course Control Number

CCC000611546

Programs referencing this courseCalifornia Mechanical Codes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=251/>)Construction Technology Career Preparation Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=292/>)