BIT 320B: CALIFORNIA MECHANICAL CODES IN CONSTRUCTION

New Course Proposal

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Originator

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Co-Contributor(s)

Name(s)
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Justification / Rationale

This course is Module 2 of 2 of a non-credit overlay version of 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 covers application of 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

320B

Full Course Title

California Mechanical Codes in Construction

Short Title

CA MECHANICAL CODES CONST

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

Schedule Description

Application of California Mechanical Codes used for construction, maintenance, and use of buildings and grounds within the State.
Prerequisite: BIT 320A

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.

Prerequisite Course(s)
BIT 320A

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

Entrance Skills
Understand the codes in construction, regulation and design.

Requisite Course Objectives

BIT 320A-Understand the codes in construction, regulation, and design.

Course Content

1. Handling and Classification of Hazardous Materials.
2. Responsibilities under Mechanical Codes.
3. Construction Materials Use in Mechanical Codes.
4. Maintenance of Buildings and Property.
5. Building Construction Processes.
6. Types of Construction.

Course Objectives

	Objectives
Objective 1	Apply the codes in construction, regulation, and design.
Objective 2	Discuss administered examination used to gain professional certification in the building inspection field.
Objective 3	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	Apply provisions 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 topic on context
Discussion	Classroom and group discussions of code application 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
Group activity participation/observation	Evaluate student presentations and complete a critical analysis verbally in class and as a written assignment out of class.	In and Out of Class
Mid-term and final evaluations	Comprehensive exams covering the content of the course. Exams may include a project evaluation completed at home or may be multiple choice and true/false questions in class.	In Class Only
Tests/Quizzes/Examinations	Timed quizzes completed out of class with discussion of correct answers in class.	In and Out of Class
Self-paced testing,Student preparation	Research a mechanical code situation and create a 10-minute presentation.	Out of Class Only
Student participation/contribution	Present 10-minute mechanical code research project identifying both the solution and the research methods used to arrive at the solution.	In Class Only
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 mechanical code examples.
4. Present mechanical code research projects.

Other Out-of-class Assignments

1. Reading assignments of codes and handouts.
2. Visit construction sites.
3. Review code sections presented in classes.
4. Research mechanical code problem and create presentation.
5. Written presentation critique assignments.

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 ill participate regularly in individual and group discussions using Canvas. Students will complete online quizzes and overall results will be reviewed with the class

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

This course introduces students to the California Mechanical Codes which they will need to read and reference online on their own in the workplace. Online learning is very appropriate.

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 obtained the skills and knowledge required 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
CCC000611547

Programs referencing this course
California Mechanical Codes Certificate of Completion (http://catalog.collegeofthedesert.eduundefined?key=251/)