

BIT 340A: CALIFORNIA ELECTRICAL 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 BIT 30 California Plumbing 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

340A

Full Course Title

California Electrical Codes Introduction

Short Title

CA ELECTRICAL 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 introduces California Electrical 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 electrical codes.

Schedule Description

California Electrical 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 Electrical Code

Edition

latest

City

Sacramento

Publisher

National Fire Protection Association

Year

2016

College Level

Yes

Flesch-Kincaid Level

12.4

ISBN #

9781557019141

Class Size Maximum

28

Course Content

1. Introduction.
2. General code requirement provisions, Electrical Codes.
3. Requirements for types of materials.
4. Occupancy Building and Electrical Code requirements.
5. Electrical Services and relationship to Building Codes.
6. General wiring methods and relationship to Building code.
7. Electrical loads calculations and Building Codes interrelationship.

Course Objectives

Objectives	
Objective 1	Understand the California electrical codes and how they apply to construction, regulation, and design of buildings.
Objective 2	Discuss skills for employment in private or public construction fields as an inspector or plans examiners.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Cite code sections with relation to electrical 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 in 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	Activity based learning applied to concepts of the course, including critique of code project presentations prepared out-of-class.	In and Out of Class
Mid-term and final evaluations	Comprehensive exams covering the content of the course. Exams may be out-of-class projects or in-class multiple choice tests.	In and Out of Class
Tests/Quizzes/Examinations	Timed quizzes completed out-of-class with discussion of answer in-class.	In and Out of Class
Student participation/contribution	Participation in class and group discussions.	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. Presentation of code examples.
4. Critique of instructor and peer code example presentations.

Other Out-of-class Assignments

1. Reading assignments of codes and handouts.
2. Review code sections presented in classes.
3. Research code restrictions for a variety of construction examples.
4. Completed quizzes.

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 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 Electrical 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 achieved 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

CCC000611557

Programs referencing this courseCalifornia Electrical Codes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=250/>)Construction Technology Career Preparation Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=292/>)