

# BIT 330A: CALIFORNIA PLUMBING CODES INTRODUCTION

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## New Course Proposal

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### Originator

zbecker

### Co-Contributor(s)

#### Name(s)

Bitanga, Bert

### 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

330A

### Full Course Title

California Plumbing Codes Introduction

### Short Title

CA PLUMBING 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 Building and Plumbing Codes used for construction, maintenance, and use of buildings and grounds within the State.

### Schedule Description

California Plumbing 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**

This course introduces California Building and Plumbing Codes used for construction, maintenance, and use of buildings and grounds within the State.

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

Book

**Author**

California Building Standards Commission

**Title**

California Plumbing Code

**Edition**

latest

**City**

Sacramento

**Publisher**

International Association of Plumbing and Mechanical Officials

**Year**

2016

**College Level**

Yes

**Flesch-Kincaid Level**

12.4

**ISBN #**

9781938936920

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**Class Size Maximum**

28

**Course Content**

1. Introduction.
2. General code requirement provisions, Plumbing Codes.
3. Requirements for types of construction and relationships between Building and Plumbing Codes.
4. Occupancy Building and Plumbing Code Requirements.
5. Drains, Waste, and Vents in Plumbing systems and relationship to Building Codes.
6. Water systems and pipe sizing.
7. Use of materials in Concrete and Steel Construction.

**Course Objectives**

Objectives	
Objective 1	Understand the California plumbing codes for drains, waste, vents, water systems, pipe sizing, concrete and steel used in construction.
Objective 2	Discuss skills for employment in private or public construction field as an inspector or plans examiner.
Objective 3	Compare the relationships between Building and Plumbing codes with respect to the requirements for types of construction and occupancy permits.

**Student Learning Outcomes**

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Cite California Plumbing and Building code sections with relation to plumbing 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 including a variety of code application examples.
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. Activities may include actual or virtual site visits.	In and Out of Class
Mid-term and final evaluations	Comprehensive exams covering the content of the course. Exams may include projects completed out-of-class or multiple choice questions completed in-class.	In Class Only
Tests/Quizzes/Examinations	Timed quizzes completed out-of-class with discussion of answers in-class.	In and Out of Class
Self-paced testing, Student preparation	Research plumbing code examples and situations out-of-class and prepare a 10-minute in-class presentation.	In and Out of Class
Student participation/contribution	Participation in class and group discussions and evaluation of presentations.	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. Presentations of code application examples.
4. Evaluate presentations.

**Other Out-of-class Assignments**

1. Reading assignments of codes and handouts.
2. Review code sections presented in classes.

3. Review code sections presented in class.
4. Research and prepare code application presentation.

**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 Plumbing Codes which they will need to read and reference 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 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**

CCC000611555

**Programs referencing this course**California Plumbing Codes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=249/>)Construction Technology Career Preparation Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=292/>)