

# BIT 326B: BUILDING & FIRE CODES APPLIED TO CONSTRUCTION

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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 26 California Fire 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

326B

### Full Course Title

Building & Fire Codes Applied to Construction

### Short Title

BLDG/FIRE CODE APP

### Discipline

#### Disciplines List

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

### Modality

Face-to-Face

100% Online

### Catalog Description

This course applies building and fire codes used for construction, maintenance, and use of buildings and grounds in the State of California. It places an emphasis on understanding and application of code sections and provisions, and the relation between Fire and Building Codes. It addresses elements of codes in areas of special occupancy, grading, fire and building material standards, and building codes appendices as they apply to both building and fire applications.

### Schedule Description

Building and Fire codes are applied to construction, maintenance, and use of buildings and grounds in the State of California.

Prerequisite: BIT 326A

### Non-credit Hours

81

**Lecture Units**

0

**Lecture Semester Hours**

0

**Lab Units**

0

**In-class Hours**

27

**Out-of-class Hours**

54

**Total Course Units**

0

**Total Semester Hours**

81

**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 326A

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

Web/Other

**Year**

2016

**Description**

California Building Code, latest edition  
<https://www.contractorresource.com/2016-california-fire-code/>

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**Class Size Maximum**

36

**Entrance Skills**

Understand building and fire codes

**Requisite Course Objectives**

BIT 326A-Demonstrate an understanding of Fire and Building codes to apply them in construction, regulation, and design

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**Course Content**

1. Review of Building Framing and Roofing Requirements-Building and Fire priorities.
2. Review of Concrete and Steel Construction.
3. Review of Handling and Classification of Hazardous Materials.
4. Responsibilities Under Building and Fire Codes.
5. Construction Materials Use.
6. Exiting construction in Buildings and Property.
7. Maintenance of Buildings and Property.
8. Building Construction Processes.
9. Grading.

10. Types of Construction.

11. Employment achievement in private or public construction fields, or become inspector or plans examiners.

### Course Objectives

Objectives	
Objective 1	Demonstrate the ability to pass applicable professional certification examinations.
Objective 2	Demonstrate how Building and Fire codes apply to construction materials use, maintenance of buildings and property, building construction processes, existing construction of buildings and property, grading, framing and roofing, concrete and steel.
Objective 3	Demonstrate appropriate handling an classification of hazardous materials as related to California Fire codes.

### Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Apply California Building and Fire codes to new construction, maintenance of buildings and property, grading, construction materials use and construction processes including framing, roofing, concrete and steel.
Outcome 2	Describe the elements of fire codes in areas of special occupancies, grading, and fire and building materials.

### Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Discussion	Classroom and group discussions.
Lecture	Guest speakers; Use of overhead transparencies and videos.
Participation	Group discussion of job site evaluations.
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
Presentations/student demonstration observations	Research out-of-class and present in-class evaluations of existing job sites with respect to building and fire code violations.	In and Out of Class
Student participation/contribution	Participation in class and group discussions to evaluate fire code applications.	In and Out of Class
Mid-term and final evaluations	Exam or project portfolio relevant to industry to determine knowledge gained in course.	In and Out of Class
Tests/Quizzes/Examinations	Timed quizzes and worksheets used to enhance learning. Quizzes are completed out-of-class and discussion of correct answers 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 in content of construction examples.
2. Review code sections a applicable to existing job site evaluations.
3. Maintenance and use of handout class materials.

#### Other Out-of-class Assignments

1. Reading assignments of codes and handouts.
2. Visit construction sites.
3. Review code sections presented in classes.
4. Maintenance and use of handout class materials.

**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  
Regular virtual office hours  
Online quizzes and examinations  
Weekly announcements

**External to Course Management System:**

Direct e-mail  
Posted audio/video (including YouTube, 3cm mediasolutions, etc.)

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

Timely feedback and return of student work as specified in the syllabus.  
Discussion forums with substantive instructor participation.  
Online quizzes and examinations.  
Weekly announcements.

**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.**

Building Inspectors are required to access online reference materials throughout their career. Online teaching of this subject is very appropriate and provides additional career readiness.

**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**

Yes

**Repeatability**

Yes

**Repeatability Limit**

NC

**Repeat Type**

Noncredit

**Justification**

Noncredit courses are repeatable until students achieve the skills and knowledge required to meet the outcomes and objectives 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**

CCC000611554

**Programs referencing this course**California Building/Fire Codes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=276/>)