

Course Outline of Record

1. Course Code: BIT-026
2.
  - a. Long Course Title: California Fire Codes
  - b. Short Course Title: CA FIRE CODES
3.
  - a. Catalog Course Description:
 

This course involves 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 occupancies, grading, fire and building material standards, and building codes appendices as they apply to both building and fire applications.
  - b. Class Schedule Course Description:
 

This course involves building and fire codes used for construction, maintenance, and use of buildings and grounds in the State of California
  - c. Semester Cycle (if applicable): Once a year
  - d. Name of Approved Program(s):
    - BUILDING INSPECTION TECHNOLOGY Certificate of Achievement
4. Total Units: 3.00      Total Semester Hrs: 54.00  
 Lecture Units: 3      Semester Lecture Hrs: 54.00  
 Lab Units: 0      Semester Lab Hrs: 0  
 Class Size Maximum: 28      Allow Audit: Yes  
 Repeatability No Repeats Allowed  
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
 

*Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm I-A)*

 Advisory: RDG 061 and  
 Advisory: MATH 060
6. Textbooks, Required Reading or Software: (List in APA or MLA format.) *N/A*
7. Entrance Skills: *Before entering the course students must be able:*
  - a. Understand the four basic operations of addition, subtraction, multiplication, and division on the whole numbers, integers, and rational numbers
    - MATH 060 - Compute using the four basic operations of addition, subtraction, multiplication, and division on the rational numbers in both fraction and decimal form.
    - MATH 060 - Apply the basic operations to solve application problems that involve whole numbers, integers, and rational numbers.
    - MATH 060 - Apply the order of operations to simplify expressions involving several operations using rational numbers.
    - MATH 060 - Use the concept of ratio to determine the solution to a proportion problem.
  - b. Understand the concept of a fraction as a part of a whole.
    - MATH 060 - Apply methods of conversion between percents, decimals, and fractions.
  - c.
 

Use various reading strategies to prepare, read and comprehend expository text.

    - RDG 061 - Use SQ3R &/or SOAR along with outlining, note-taking, mapping summarizing and other strategies to prepare, read, & comprehend expository text.
  - d.
 

Read a variety of texts fluently.

# BIT 026-California Fire Codes

- RDG 061 - Read a variety of texts fluently.

e.

Write organized summaries & reactions that capture main idea and supporting details.

- RDG 061 - Write organized summaries & reactions that capture main idea and supporting details.

f.

Understand multiple word meanings, uses & synonyms.

- RDG 061 - Understand multiple word meanings, uses & synonyms

## 8. Course Content and Scope:

Lecture:

- Introduction
- General code requirement provisions, Building and Fire Codes
- Requirements for types of construction
- Occupancies Building and Fire Code requirements
- Provisions in Building and Fire Codes for Fire Sprinklers and Alarm Systems
- Building Framing and Roofing Requirements-Building and Fire priorities
- Concrete and Steel Construction
- Handling and Classification of Hazardous Materials
- Responsibilities Under Building and Fire Codes
- Construction Materials Use
- Exiting construction in Buildings and Property
- Maintenance of Buildings and Property
- Building Construction Processes
- Grading
- Types of Construction
- Employment achievement in private or public construction fields, or become inspector or plans examiners.

Lab: *(if the "Lab Hours" is greater than zero this is required)*

## 9. Course Student Learning Outcomes:

1.  
Cite California fire codes used in construction, regulation, and design.
2.  
Apply California fire codes in construction, regulation, and design.
3.  
Describe the elements of fire codes in areas of special occupancies, grading, and fire and building materials.

## 10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Demonstrate an understanding of Fire codes to apply them in construction, regulation, and design
- b. Demonstrate the ability to pass applicable professional certification examinations
- c. Apply Building and Fire codes in construction, regulation, and design

## 11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Discussion
- b. Lecture
- c. Participation

Other Methods:

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Presentation of construction materials

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 54.00

Outside Class Hours: 108.00

a. In-class Assignments

1. Presentation of class subjects and materials
2. Review code sections
3. Maintenance and use of handout class materials

b. 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

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Presentations/student demonstration observations
  - True/false/multiple choice examinations
  - Mid-term and final evaluations
  - Student participation/contribution
- Participation in class and group discussions

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Fulfill the requirements for an entry- level position in their field.

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Display the skills and aptitude necessary to pass certification exams in their field.

Exhibit effective written, oral communication and interpersonal skills.

IO - Personal and Professional Development

Demonstrate an understanding of ethical issues to make sound judgments and decisions.

IO - Critical Thinking and Communication

Apply principles of logic to problem solve and reason with a fair and open mind.

Apply standard conventions in grammar, mechanics, usage and punctuation.

Appreciate diversity as it is expressed in multiple disciplines and across various cultures through reading, speaking and writing.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
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17. Special Materials and/or Equipment Required of Students:

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18. Materials Fees:  Required Material?

Material or Item	Cost Per Unit	Total Cost
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# BIT 026-California Fire Codes

19. Provide Reasons for the Substantial Modifications or New Course:

Change the advisory and entrance skills to Reading 061 and periodic review.

20. a. Cross-Listed Course (*Enter Course Code*): N/A  
b. Replacement Course (*Enter original Course Code*): N/A

21. Grading Method (*choose one*): Letter Grade Only

22. MIS Course Data Elements

- a. Course Control Number [CB00]: CCC000282100  
b. T.O.P. Code [CB03]: 95720.00 - Construction Inspection  
c. Credit Status [CB04]: D - Credit - Degree Applicable  
d. Course Transfer Status [CB05]: B = Transfer CSU  
e. Basic Skills Status [CB08]: 2N = Not basic skills course  
f. Vocational Status [CB09]: Clearly Occupational  
g. Course Classification [CB11]: Y - Credit Course  
h. Special Class Status [CB13]: N - Not Special  
i. Course CAN Code [CB14]: N/A  
j. Course Prior to College Level [CB21]: Y = Not Applicable  
k. Course Noncredit Category [CB22]: Y - Not Applicable  
l. Funding Agency Category [CB23]: Y = Not Applicable  
m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program (*if program-applicable*): BUILDING INSPECTION TECHNOLOGY

*Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)*

23. Enrollment - Estimate Enrollment

First Year: 20

Third Year: 28

24. Resources - Faculty - Discipline and Other Qualifications:

- a. Sufficient Faculty Resources: Yes  
b. If No, list number of FTE needed to offer this course: N/A

25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. (*Explain:*)

N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

2016 California Fire Codes

28. Originator Donbert M. Bitanga Origination Date 11/06/17