

Course Outline of Record

1. Course Code: BIT-026
2.
 - a. Long Course Title: Building II & Fire Codes
 - b. Short Course Title: BLDG II/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
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: 36 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: ENG 070 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. Develop organize and express ideas in paragraph and essay form
 - ENG 070 - Develop and expand vocabulary.
 - ENG 070 - Develop and expand vocabulary.
 - ENG 070 - Demonstrate the ability to generate, develop and organize ideas into a cohesive essay using multiple paragraphs.
 - ENG 070 - Demonstrate the ability to generate, develop and organize ideas into a cohesive essay using multiple paragraphs.
 - ENG 070 - Demonstrate through the writing process the ability to apply standard rules of grammar, punctuation and spelling in academic writing.
 - ENG 070 - Demonstrate through the writing process the ability to apply standard rules of grammar, punctuation and spelling in academic writing.
 - ENG 070 - Introduce basic business writing [letter, resume, email etiquette].
 - ENG 070 - Introduce basic business writing [letter, resume, email etiquette].
 - b. Read texts and respond in writing at the literate level
 - ENG 070 - Comprehend and summarize readings.
 - ENG 070 - Read and identify main ideas and supporting details.
 - ENG 070 - Recognize and explain patterns of idea development in readings.
 - c. 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.

d. Understand the concept of a fraction as a part of a whole.

- MATH 060 - Apply methods of conversion between percents, decimals, and fractions.

8. Course Content and Scope:

Lecture:

- a. Introduction
- b. General code requirement provisions, Building and Fire Codes
- c. Requirements for types of construction
- d. Occupancies Building and Fire Code requirements
- e. Provisions in Building and Fire Codes for Fire Sprinklers and Alarm Systems
- f. Building Framing and Roofing Requirements-Building and Fire priorities
- g. Concrete and Steel Construction
- h. Handling and Classification of Hazardous Materials
- i. Responsibilities Under Building and Fire Codes
- j. Construction Materials Use
- k. Exiting construction in Buildings and Property
- l. Maintenance of Buildings and Property
- m. Building Construction Processes
- n. Grading
- o. Types of Construction
- p. 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 code sections and apply provisions with relation to fire codes in construction, regulation and design.

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:

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 Assesment 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:

18. Materials Fees: Required Material?

Material or Item	Cost Per Unit	Total Cost
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19. Provide Reasons for the Substantial Modifications or New Course:

Change advisory from ENG-050 & RDG-050 to ENG-070

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

BIT 026-Building II & Fire Codes

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: 25

Third Year: 36

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

2007 California Building Codes

28. Originator Donbert M. Bitanga

Origination Date 02/15/15