

**College of San Mateo
Official Course Outline**

1. COURSE ID: BLDG 735 **TITLE:** ADA Building Requirements

Units: 3.0 units **Hours/Semester:** 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours

Method of Grading: Grade Option (Letter Grade or Pass/No Pass)

2. COURSE DESIGNATION:

Degree Credit

Transfer credit: none

3. COURSE DESCRIPTIONS:

Catalog Description:

The course will educate students about the history of the Disability Civil Movement and how that movement translated into the development of federal and state legislation regarding accessible design and construction in the built environment. The course will cover the content and field application of current codes, standards and guidelines, including the ABA, ADA, FFHAA, Section 504 and the California Building Code.

4. STUDENT LEARNING OUTCOME(S) (SLO'S):

Upon successful completion of this course, a student will meet the following outcomes:

1. Explain the Disabled Rights Movement.
2. Discuss major lawsuits and controversies associated with accessible design, and their effect on design and construction of buildings in the last two decades.
3. Recall various regulations.
4. Discuss basic compliance inspection techniques.
5. Comprehend key accessible building elements used in various building scenarios.
6. Discuss the design, alteration, and construction of accessible building elements.
7. Recall current federal and California Building Code access regulations.
8. Analyze design deficiencies and determine remedies.

5. SPECIFIC INSTRUCTIONAL OBJECTIVES:

Upon successful completion of this course, a student will be able to:

1. Explain the Disabled Rights Movement.
2. Discuss major lawsuits and controversies associated with accessible design, and their effect on design and construction of buildings in the last two decades.
3. Recall various regulations.
4. Discuss basic compliance inspection techniques.
5. Comprehend key accessible building elements used in various building scenarios.
6. Discuss the design, alteration, and construction of accessible building elements.
7. Recall current federal and California Building Code access regulations.
8. Analyze design deficiencies and determine remedies.

6. COURSE CONTENT:

Lecture Content:

1. The history of the Disabled Rights Movement and the adoption and scoping of major Federal legislation and standards; including ANSI A117.1, Section 504 of the Rehabilitation Act, ABA, UFAS, ADA, ADAAG, FFHAA, and the 2010 ADA Standards for Accessible Design.
2. This history of accessibility in California including The Independent Living Movement, The New Horizons, The Unruh Act, and the California Building Code and the Certified Access Specialist Program and the California Council on Disability Access (CCDA).
3. Overview of the code and standard adoption process and which state, federal, and private entities are involved. Overview of which entities have jurisdiction over different buildings and facilities.
4. Overview of the definitions and acronyms specific to the field of accessible design. Study of the accessible building blocks as presented in ANSI A 117.1.
5. Accessibility requirements for new, existing and historical buildings containing public accommodations and commercial interests.
6. Federal versus California regulations for existing buildings focusing on cost disproportionality, technical infeasibility, unreasonable hardships, path of travel upgrades and multi-story elevator exceptions.

7. General scoping for State and Federal codes
8. Study of the “building blocks” and how they form the basis for all the technical requirements.
9. Elements of an accessible route including floors and levels, doors, ramps and elevators.
10. General site and building elements including accessible parking and stairs and handrails
11. Accessibility requirements for plumbing elements and facilities including water fountains, sinks, bathing and toilet facilities.
12. Accessibility requirements for communication visual and tactile signage pictograms, variable message signs, telephones and detectable warnings.
13. Special rooms and spaces including auditoriums, sports arenas, transient lodging and public housing.
14. Accessibility requirements for multi-family dwellings and multi-family dwelling units.
15. Inspection and design techniques and problem solving.

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Lecture
- B. Other (Specify): Videos; Guided group discussions; Readings from various state and federal legislations, standards, and codes.; Readings and interactive exercises from various federal, state, and private websites.

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Homework assignments on the history of the accessibility movement as well as code and legislation development and content.

Reading Assignments:

Weekly readings from various state and federal legislations, standards and codes, and online websites.

Other Outside Assignments:

Projects involving inspection of accessible elements as well as code application and problem-solving techniques.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Class Work
- D. Exams/Tests
- E. Group Projects
- F. Homework
- G. Oral Presentation
- H. Quizzes

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. International Code Council. *Chapters 11A & 11B 2019 California Building Code*, ed. Washington, DC: International Code Council, 2019
- B. International Code Council. *Accessible and Usable Buildings and Facilities*, ANS/ICC A117.1 2 ed. Washington, DC: International Code Council, 2018

Origination Date: September 2020

Curriculum Committee Approval Date: October 2020

Effective Term: Fall 2021

Course Originator: Peter von Bleichert