

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

 X Transfer course X A.A. degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: CI 101 Building Codes II

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None.

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

A study of the requirements and standards for code enforcement and inspection. Interpretation is based on the International Conference of Building Officials (ICBO) manual which is revised every three years.

SPECIFIC COURSE OBJECTIVES:

Successful students will be able to:

1. Explain inspection requirements for concrete, masonry, wood, and metal buildings.
2. Determine wind and earthquake loads on light-wood frame structures.
3. Analyze the framing requirements for wood-framed structures.
4. Explain the code requirements for concrete foundations, excavations, grading operations, exiting systems, fireplaces, and the restrictions on glass.
5. Explain the fire-resistive standards required between different occupancies and the code requirements regulating interior and exterior finishes.
6. List the occupancies where an automatic fire sprinkler system would be required.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction
 - A. General design criteria
 - B. Earthquake resistance
- II. Masonry Design/Construction
 - A. Basic design criteria
 - B. Specific code requirements for construction
- III. Concrete Design/Construction
 - A. Basic design criteria
 - B. Specific code requirements for construction
- IV. Wood Design/Construction
 - A. General design criteria
 - B. Glulam beams, plywood diaphragms, fasteners
 - C. Conventional framing requirements
 - D. Design tables and code restrictions
- V. Foundations and Excavations
 - A. Concrete footings and reinforcement
 - B. Grading and drainage requirements
- VI. Exiting Systems
 - A. General design criteria
 - B. Exiting for specific occupancies
 - C. Determination of occupant loads
- VII. Fire Resistive Standards
 - A. Fire walls and flame spread finishes
 - B. Fire rated assemblies
- VIII. Fireplaces, Fire Sprinklers, and Glass
 - A. General design requirements
 - B. Specific code requirements for construction

REQUIRED READING:

International Conference of Building Officials. Uniform Building Code. Whittier: International Conference of Building Officials, 1997.

SUGGESTED READING:

Design of Wood Structures.

Gypsum Manual.

Masonry Design Manual.

REQUIRED WRITING:

Students will prepare a written summary of inspection requirements/deficiencies that would be required by a building inspector assigned to inspect a light-wood framed structure. A minimum of one page is required. Quizzes relating to reading assignments and handouts require written answers. A minimum of one paragraph may be required.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Prepare written summary, read textbook, and study lecture notes.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply.

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Quizzes	= 15%	A = 100 - 92%
Midterm -	= 45%	B = 91 - 82%
Final Exam -	= 25%	C = 81 - 72%
Participation -	= 10%	D = 71 - 65%
Paper -	= 5%	F = below 64%
	100%	

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 2

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 C 2 A

CONTACT PERSON: Wilma Owens, Director Vocational Programs

SIGNATURES:

SIGNATURES ON FILE