

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

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

COURSE NUMBER AND TITLE: CI 115 Nonstructural Plan Review

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: CI 100.

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

A study of basic methods used by plans examiners to check the nonstructural details of construction drawings in compliance with the uniform building code. Topics cover analyzing nonstructural details and determining compliance with the minimum requirements for concrete, masonry, wood, and steel structures.

SPECIFIC COURSE OBJECTIVES:

Successful students will be able to:

1. Discuss and list the basic methods of nonstructural plan review.
2. Analyze and correct deficiencies in construction details that fail to comply with minimum standards.
3. Identify occupancies and classify building types.
4. Determine fire resistance, maximum allowable area, occupant loads, ventilation requirements, exit widths, and accessibility standards.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. INTRODUCTION
 - A. Occupancy classifications
 - B. Code data
 - C. Plan documents

- II. Nonstructural Plan Review Procedures
 - A. Municipal policies and procedures
 - B. Maximum allowable area computations
 - C. Exterior fire wall ratings
 - D. Maximum height and story limits
- III. General Exiting Requirements
 - A. Exit width
 - B. Number of required exits
 - C. Panic hardware
 - D. Smoke control and life safety systems
- IV. Masonry Construction
 - A. Allowable design limits
 - B. Masonry details
 - C. Inspection and construction standards
- V. Concrete Structures
 - A. Allowable design limits
 - B. Concrete details
 - C. Inspection and construction standards
- VI. Wood Structures
 - A. Shear transfer and shear walls
 - B. Span tables and beam sections
- VII. Americans With Disabilities Act (ADA-90)
 - A. Accessibility and adaptability standards
 - B. Federal and state laws
 - C. Site design for compliance with ADA
- VIII. Fire Resistive Standards
 - A. Fire walls and fire stop penetrations
 - B. Draft stops and fire resistive assemblies
 - C. Rated building types

REQUIRED READING:

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

SUGGESTED READING:

International Conference of Building Officials. Plan Review Manual. Whittier: International Conference of Building Officials, 1997.

REQUIRED WRITING:

Term paper analyzing the rules and responsibilities of a municipal plan checker including the minimum skills of computing occupant load, occupancy separations, exit width, exit separations, and fire resistive standards.

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.

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):

A = 100 – 92%	Quizzes – 30%
B = 91 – 82%	Midterm exam – 35%
C = 81 – 72%	Final exam – 30%
D = 71 – 65%	Participation - 5%
F = Below 65%	Total 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 ON FILE