

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 125 Plan Reading

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:

Gives the student an understanding of how to read construction drawings and to establish a systematic method of reviewing plans for compliance with the Uniform Building Code. CSU

SPECIFIC COURSE OBJECTIVES:

Successful students will be able to:

1. Read and understand building plans.
2. Recognize the basic concepts, symbols, and conventions used by designers to transfer information to others and in particular to the builder.
3. Identify omissions and deviations from accepted practice and building standards.
4. Develop a systematic approach of plan reading and review to ensure a clear understanding of the building to be constructed.
5. Evaluate construction problems and identify possible solutions.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Drawings - The Language of the Industry
 - A. Design - construction sequence
 - B. Design professions
 - C. Theory of projection
 - D. Scales used on drawings

- E. Use of lines
- F. Use of symbols

II. Basic Drawings

- A. Plan views
 - 1. Site plan
 - 2. Floor plan
 - 3. Foundation plan
 - 4. Framing plan
 - 5. Roof plan
 - 6. Reflected ceiling plan
- B. Elevations
- C. Sections
- D. Details
 - 1. Framing
 - 2. Architectural

III. Architectural Features

- A. Exterior trim
- B. Finish site work
- C. Interior finish and cabinetry
- D. Fireplace and stairs

IV. Contracts and Specifications

- A. Bid process
- B. Contractor qualifications and requirements
- C. Job control requirements
- D. Material specifications

V. Special Features

- A. Plumbing
- B. Heating and air conditioning (HVAC)
- C. Electrical
- D. Multi-family dwellings

REQUIRED READING:

Muller, Edward J. Reading Architectural Working Drawings Volume 1.
Englewood Cliffs, NY: Prentice Hall, 1996.

SUGGESTED READING:

Plan Review Manual. Whittier, CA: International Conference of
Building Officials, 1988.

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

REQUIRED WRITING:

Essay-type answers to homework problems of at least one paragraph in length, problem solving exercises as applied to blueprints and plans of at least one page in length.

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.

Read required text, study lecture notes, complete written assignments. Students may be made aware of construction projects in the area that are pertinent to the class work or discussion and for possible site visitations.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

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

Yes No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

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

Participation	10%	A = 100 - 93
Homework	10%	B = 92 - 85
Quizzes (2)	20%	C = 84 - 78
Midterm	20%	D = 77 - 70
Comprehensive and practical final exam	40%	F = below 70
	<u>100%</u>	

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

Yes No Number of times course may be taken for credit: 1

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

CONTACT PERSON: Wilma Owens, Director Vocational Programs, Ext. 2286.

SIGNATURES ON FILE

