

**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:** AP C 204 Blueprint II

**UNIT VALUE:** 1.5

**MINIMUM NUMBER OF SEMESTER HOURS:** 40

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** AP C 203.

**COREQUISITE:** None.

**RECOMMENDED PREPARATION:** None.

**SCOPE OF COURSE:**

This course is the second of two classes in blueprint reading. This course will cover foundation prints, commercial prints, residential prints and estimating. Construction specifications will also be covered.

**SPECIFIC COURSE OBJECTIVES:**

Students will be able to:

1. Explain the difference between residential prints and commercial prints
2. Demonstrate the use of multiple story blue prints
3. Demonstrate the ability to do material take offs
4. Perform material estimations

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. Reading plot plans
  - A. Recognize the various topographical lines
  - B. Location of structure on property
  - C. Location of all utilizes, set backs and easements
  
- II. Concrete footings, foundations and floor blueprints
  - A. Analyze and decipher footing and foundation plains

- B. Analyze and decipher floor blueprints
  - C. Calculate concrete needed
- III. Framing and finish construction blueprints
- A. Analyze framing techniques to be used
  - B. Establish framing material list
  - C. Demonstrate the ability to read various finish schedules
- IV. Introduction to mechanical blueprints
- A. Heating requirements
  - B. Cooling requirements
  - C. Identify specialty items
- V. Estimating construction cost
- A. Material take off list
  - B. Coast factoring of labor
  - C. Develop time lines for project

**REQUIRED READING:**

Brown, C. Walter. Blueprint Reading for Construction. South Holland, Illinois: Goodheart-Willcox, 1990

Koel, Leonard. Carpentry. Homewood: American Technical Publishers, 1991

Koel, Leonard. Concrete Formwork. Chicago: American Technical Publisher, 1990

Carpenters 46 Northern California Counties JATC. Introduction to Working Drawings. Oakland: Self-Published, 1991

**SUGGESTED READING:**

None.

**REQUIRED WRITING:**

Completion of written assignments consisting of ten to twelve pages 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.**

Students will read assigned text and workbook assignments.

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

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

**DISTANCE LEARNING:**

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):

Class Participation	10%	A = 100 – 90
Quizzes	20%	B = 89 – 80
Lab/Shop Projects	20%	C = 79 – 70
Workbook	20%	F = Below 70
Final Exam	<u>30%</u>	
	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 Part C 2A

**CONTACT PERSON:** Director, Vocational Programs, Ext. 2286

Signatures on File