

**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 211 Architectural Concrete

**UNIT VALUE:** 1.5

**MINIMUM NUMBER OF SEMESTER HOURS:** 40

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

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None.

**COREQUISITE:** None.

**RECOMMENDED PREPARATION:** None.

**SCOPE OF COURSE:**

In this course the forming of poured-in-place columns will be covered, with instruction and practice in both job-built.

**SPECIFIC COURSE OBJECTIVES:**

Students will be able to:

1. Identify and explain the difference between ordinary forming systems and architectural concrete forming systems
2. Demonstrate the ability to analyze wall locations on blueprints.
3. Apply the mathematical calculations required to compute the amount of material and concrete needed for various forms.
4. Demonstrate the construction and assembling techniques used in architectural concrete forming.

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

- I. Identify the differences between ordinary forming systems and architectural concrete forming systems
- II. Demonstrate the ability to analyze wall locations on blueprints
  - A. Locate wall placement on blueprints
  - B. Read specifications for system application

- III. Mathematical calculations required for computing the amount of material and concrete needed
- IV Construction and assembling techniques used in architectural concrete forming
  - A. Manufactures specifications
  - B. Architects design specifications

**REQUIRED READING:**

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

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

Carpenters 46 Northern California Counties JATC. Construction Mathematics. Oakland: Self-published, 1991

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

**SUGGESTED READING:**

None.

**REQUIRED WRITING:**

Completion of written assignments in student workbook, 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 working 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 X

**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)

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- \_\_\_\_\_ 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):

Attendance/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 X 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:**

Signatures on File