

CATALOG INFORMATION

Dept and Nbr: CONS 270

Title: BLUEPRINT READING

Full Title: Blueprint Reading

Last Reviewed: 4/16/2007

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: CONS 370

**Catalog Description:**  
Language of blueprints and specifications as applied to the building trades: symbols, conventions, scales, nomenclature, orthographic projections, contract documents, specifications and Uniform Building Code.

**Prerequisites/Corequisites:**

**Recommended Preparation:**

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: Language of blueprints & specifications; symbols, conventions, scales, nomenclature, orthographic projections, contract documents, specifications & Uniform Building Code. (Grade Only)  
Prerequisites/Corequisites:  
Recommended:  
Limits on Enrollment:

Transfer Credit: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>			Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>			Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>			Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective:	Fall 2002	Inactive:	Fall 2011
<b>UC Transfer:</b>		Effective:		Inactive:	

**CID:**

**Certificate/Major Applicable:**  
Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

The students will:

1. Retrieve and use information from architectural working drawings including: Site Plan, Floor Plan, Foundation and Floor Framing Plan, Sections, Details, Exterior Elevations, and Utility Plans.
2. Use the architectural scale.
3. Identify architectural drawings and relationship between them.
4. Explain contents of working drawings, specifications and regulatory authority documents.

### **Topics and Scope:**

1. Introduction to design process.
2. Theory of orthographic projection.
3. Use of architectural scale.
4. Symbols and conventions used in working drawings.
5. Relationship of architectural plans.
6. Schedules.
7. Specifications.
8. Contract documents.
9. General conditions of the contract.
10. Bid forms.
11. Structural drawings.
12. Sections and details.
13. Roof construction.
14. Plumbing drawings.
15. Shop drawings.

**Assignment:**

1. Reading and exercises.
2. Interpreting working drawings
3. Interpreting specifications

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams

Problem solving  
25 - 45%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Performance exams

Skill Demonstrations  
25 - 45%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams  
25 - 45%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

CLASS PARTICIPATION

Other Category  
5 - 10%

### Representative Textbooks and Materials:

UNDERSTANDING CONSTRUCTION DRAWINGS by Huth, 1990.

COUNTY OF SONOMA RESIDENTIAL CONSTRUCTION HANDBOOK - LATEST EDITION.