CONS 60 Course Outline as of Fall 2002

CATALOG INFORMATION

Dept and Nbr: CONS 60 Title: BLUEPRINTS: RES
Full Title: Blueprint Reading: Residential
Last Reviewed: 4/16/2007

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	0	4	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	2.00		Contact Total	35.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 105.00

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 270

Catalog Description:
Language of blueprints and specifications as applied to residential construction including: use of scales, drawing symbols and conventions in sketching, interpretation of drawing content, specifications, and code requirements.

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: Language of blueprints and specifications as applied to residential construction including: use of scales, drawing symbols and conventions in sketching, drawing content interpretation, specification interpretation, and code requirement interpretation. (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:

AS Degree:	**Area**			Effective:	Inactive:
CSU GE:	**Transfer Area**			Effective:	Inactive:
IGETC:	**Transfer Area**			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 2002	Inactive:	Fall 2011
UC Transfer:		Effective:		Inactive:	

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
The student will:
1. Use the architectural scale to interpret drawings and to prepare sketch assignments.
2. Analyze architectural drawings and describe the relationships between them.
3. Retrieve and interpret information from architectural working drawings including: Site Plan, Floor Plan, Foundation and Floor Framing Plan, Roof Framing Plan, Sections, Details, Exterior and Interior Elevations and Utility Plans.
4. Identify architectural symbols used in construction drawings and use them to prepare sketch assignments.
5. Evaluate working drawing information as it relates to Code requirements.
6. Evaluate working drawing information as it relates to specification requirements.
7. Synthesize working drawing content by preparing sketch solutions to problems.

Topics and Scope:

1. Introduction to the design process
   a. Professional roles
   b. Documentation
2. Use of the scale
   a. Measuring components of working drawings
   b. Preparing sketches
3. Freehand sketching and lettering techniques
   a. Use of tools
   b. Professional standards

4. Theory of orthographic projections
   a. 3-view drawings
   b. Elevations
   c. Sections
5. Symbols and conventions used in architectural working drawings
6. Working Drawing types and relationships
   a. Site Plan
   b. Floor Plan,
   c. Foundation and Floor Framing Plan
   d. Roof Framing Plan
   e. Sections
   f. Details
   g. Exterior and Interior Elevations
   h. Utility Plans
7. Working drawing content by drawing type
8. Common residential Code requirements
   a. Relationship to plan check
   b. Incorporation into documents and drawings
9. Common residential specification information
   a. Organization
   b. Division content
   c. Description of materials
10. Coordination of architectural drawings with electrical, mechanical, and plumbing plans

Assignment:

1. Readings in text.
2. Completing Exercises from text.
3. Sketching technique exercises.
4. Interpreting working drawings.
5. Interpreting common residential Code requirements.
6. Interpreting common residential specifications information.
7. Sketching solutions to problems.
8. Written assignments involving analysis and synthesis of course material.

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.

Written homework	Writing 10 - 20%

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 - 40%

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

Class performances, Performance exams	Skill Demonstrations 25 - 40%

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

Multiple choice, True/false, Matching items, Completion	Exams 20 - 30%

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

CLASS PARTICIPATION	Other Category 5 - 10%

Representative Textbooks and Materials:
Del Pico, Wayne. Blueprint Reading. R.S. Means, 1995.