

ARCH 56 Course Outline as of Fall 2003**CATALOG INFORMATION**

Dept and Nbr: ARCH 56 Title: INTRO TO ARCH DRAFTING

Full Title: Introduction to Architectural Drafting

Last Reviewed: 4/6/2009

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	1.50	Lab Scheduled	3.00	8	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

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:

Catalog Description:

This manual drafting course will introduce the student to the primary types of architectural working drawings. Using a simple wood frame structure, the student will produce an abbreviated set of drawings including: Floor Plan, Foundation and Floor Framing Plan, Roof Framing Plan, Cross and/or Longitudinal Sections and selected Details.

Prerequisites/Corequisites:

Course Completion or Current Enrollment in APTECH 45 (or APTECH 55 or IED 55)

Recommended Preparation:**Limits on Enrollment:****Schedule of Classes Information:**

Description: This manual drafting course will introduce the student to the primary types of architectural working drawings. Using a simple wood frame structure, the student will produce an abbreviated set of drawings including: Floor Plan, Foundation and Floor Framing Plan, Roof Framing Plan, Cross and/or Longitudinal Sections and selected Details. (Grade Only)

Prerequisites/Corequisites: Course Completion or Current Enrollment in APTECH 45 (or

APTECH 55 or IED 55)

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 2003	Inactive: Fall 2016
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon successful completion of this course the student will be able to:

1. Summarize the theory, practice and application of wood frame construction.
2. Demonstrate comprehension by:
 - a. Generating a Floor Plan drawing.
 - b. Generating a Foundation and Floor Framing Plan drawing.
 - c. Generating a Roof Framing Plan drawing.
 - d. Generating a Cross and/or Longitudinal Section drawing.
 - e. Generating identified Details drawings.
3. Identify common Code requirements for each drawing type.

Topics and Scope:

1. Elements of a floor plan
 - a. Plan view of walls
 - b. Openings in walls
 1. doors, windows, etc.
 2. built-in items
 - c. Introduction to related Code requirements and drawing conventions
2. Elements of a foundation and floor framing plan
 - a. Plan view of wood framed floor components
 - b. Concrete slab components, from the bottom of the footing to the top of the floor
 - c. Introduction to related Code requirements and drawing conventions
3. Elements of a roof framing plan
 - a. Plan view of wood frames roof components, from the support below

- ceiling/roof to the top of the ridge
- b. Introduction to related Code requirements and drawing conventions
- 4. Elements of section drawings
 - a. Section view of foundation, floor, and roof elements at one and/or two locations on building
 - b. Views perpendicular to each other
 - c. Introduction to related Code requirements and drawing conventions
- 5. Elements of Details
 - a. Section views of selected small portions of the building showing connections of framing members
 - b. Attachment of finish materials
 - c. Demonstrating Code compliance
 - d. Introduction to related Code requirements and drawing conventions

Assignment:

1. The same simple wood frame structure will be used for all manual drawing assignments:
 - a. Draw a Floor Plan from provided reference material.
 - b. Draw a Foundation and Floor Framing Plan from provided reference materials
 - c. Draw a Roof Framing Plan from provided reference materials.
 - d. Draw a Cross and/or Longitudinal Section from provided reference materials.
 - e. Draw selected Details from provided reference materials.
2. 4 quizzes and 1 final exam (objective examinations).
3. Reading assignments 15 - 30 pages per week.

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
15 - 30%

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

50% of grade for all assignments; drafting.

Skill Demonstrations
50 - 65%

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

Multiple choice, True/false, Matching items, Completion

Exams
15 - 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:

Huan, Larry, et. al. Habitat for Humanity, How to Build a House. Taunton Press, Inc. 2002.