

**ARCH 56 Course Outline as of Fall 2009****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	1.00	17.5	Lecture Scheduled 17.50
Minimum	1.50	Lab Scheduled	1.50	8	Lab Scheduled 26.25
		Contact DHR	0		Contact DHR 0
		Contact Total	2.50		Contact Total 43.75
		Non-contact DHR	0		Non-contact DHR 0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 78.75

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 APTE 45 ( or 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 APTE 45 ( or 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:**

<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 2003	Inactive: Fall 2016
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

### **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.
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

**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.

Drafting assignments

Problem solving  
15 - 30%

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

Drafting assignments

Skill Demonstrations  
50 - 65%

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

Quizzes, objective examinations (multiple choice, true/false, matching items, completion and problem solving)

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. 2008.

Instructor prepared materials.