**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

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| 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:

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|---|---|---|---|---|---|
| **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.

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| 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<br>0 - 0% |

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

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| Homework problems, Quizzes, Exams | Problem solving<br>15 - 30% |

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

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| 50% of grade for all assignments; drafting. | Skill Demonstrations<br>50 - 65% |

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

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| Multiple choice, True/false, Matching items, Completion | Exams<br>15 - 30% |

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

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| Class participation. | Other Category<br>5 - 10% |

**Representative Textbooks and Materials:**
Huan, Larry, et. al. Habitat for Humanity, How to Build a House. Taunton Press, Inc. 2002.