

College of San Mateo
Official Course Outline

1. **COURSE ID:** ARCH 120 **TITLE:** Architecture + Design Drawing I: Drawing and Visual Thinking
Units: 2.0 units **Hours/Semester:** 16.0-18.0 Lecture hours; 48.0-54.0 Lab hours; and 32.0-36.0 Homework hours
Method of Grading: Letter Grade Only
2. **COURSE DESIGNATION:**
Degree Credit
Transfer credit: CSU; UC
3. **COURSE DESCRIPTIONS:**
Catalog Description:
This course presents the basic techniques of hand drawing as an essential method and skill of design exploration, visual thinking, and design communication. Studio work involves observation and freehand drawing of objects, architecture and environmental settings exploring techniques of line, tone, and their combination using soft pencil, conte/charcoal and pen/ink. Topics include proportion, visual composition, principles of observed perspective, and orthographic drawing conventions such as plan, section and elevation, and Paraline drawing. Introduction to digital media to create 3-D model. Graphic supplies will be required. (Fall only)
4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**
Upon successful completion of this course, a student will meet the following outcomes:
 1. Produce freehand drawings of observed subjects in contour line & full tone.
 2. Produce an observed perspective drawing without the aid of mechanical methods.
 3. Produce drawings of observed objects in plan, section and elevation.
 4. Produce Paraline drawings: Axonometric and Elevation oblique or Plan oblique.
 5. Read multiview drawings and interpret graphic language into pictorial axonometric.
 6. Prepare drawings for presentation.
5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**
Upon successful completion of this course, a student will be able to:
 1. Produce freehand drawings of observed subjects in contour line & full tone.
 2. Produce an observed perspective drawing without the aid of mechanical methods.
 3. Produce drawings of observed objects in plan, section and elevation.
 4. Produce Paraline drawings: Axonometric and Elevation oblique or Plan oblique.
 5. Read multiview drawings and interpret graphic language into pictorial axonometric.
 6. Prepare drawings for presentation.
6. **COURSE CONTENT:**
Lecture Content:
 1. Overview of types of Drawings and Graphic communication;
 2. Contour drawing, Tone & Texture;
 3. Perspective Drawing: 1 & 2 point, space and depth cues;
 4. Orthographic Drawing: Plan, Elevation and Section;
 5. Multiview Drawings: Reading plan and elevations and interpreting into axonometrics;
 6. Paraline Drawing: Axonometric and Elevation Oblique or Plan Oblique;
 7. Intro to 3-D modeling application;
 8. Presentation drawing: Use of color, mixed media and digital rendering techniques in the communication of architecture.**Lab Content:**
Lab content follows lecture schedule regarding design graphic content with specific exercises for each topic carried out in the studio environment with instructor review and critique.
7. **REPRESENTATIVE METHODS OF INSTRUCTION:**
Typical methods of instruction may include:
 - A. Other (Specify): The semester's work is divided between instruction and assignments to be completed in class. Instruction is structured to help the student understand the intent and expected results of the drawings

produced. Lectures include presentation of graphic examples, techniques and methods. Assignments provide an ongoing check of student/class progress and competency.

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Graphic Exercises in architectural drawing techniques. Hand, Mechanical & Digital.

Reading Assignments:

Textbook Reading

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Class Work
- D. Lab Activities
- E. Projects
- F. Effort, participation, and improvement. Appraisal of student in-studio work. Graded drawing assignments. Final review and critique.

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. Ching, F. D. K.. *Architectural Graphics*, 6th ed. Wiley, 2015
- B. Francis Ching. *Design Drawing*, 3rd ed. Wiley, 2019

Origination Date: September 2020

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Course Originator: Alena Reyes