

WEST VALLEY COLLEGE Course Outline

Department: Architecture

Course Number and Title: ARCH 051 - Architectural Graphics: Drawing & Sketching

Length of course in weeks: 16

Units: 3

Total Class Hours/Week: 6

Lecture Hours/Week: 2

Lab Hours/Week: 4

Grade Type: Grade/Credit/No Credit

Catalog Description: This course is a study of the basic techniques of drafting and sketching as it relates to architectural graphic communication. Students have opportunities to develop visual literacy, freehand sketching techniques, and an understanding of perspective. This course also covers natural and man-made forms and basic architectural rendering.

Schedule Description: This course is a study of the basic techniques of drafting and sketching as it relates to architectural graphic communication.

Recommended Preparation:

MATH 103, Elementary Algebra or
MATH 103R, Elementary Algebra.

Course Outcomes: Student Learning Outcomes

1. **Outcome:** Students will be able to critically evaluate natural and man-made forms.
Assessment: Student evaluations of their own work and the work of others in the field.
2. **Outcome:** Students will demonstrate freehand sketching skills that represent the theory and practice of perspective and architectural rendering.
Assessment: Student-produced drawings and sketches organized in a personal sketch book of at least 100 pages.

Course Objectives: Upon completion of this course the student should be able to:

1. Apply the basic skills of observation and of freehand drawing using black and white media, primarily pencil.
2. Use basic visual literacy to communicate through the language of graphics.
3. Adopt fundamentals of perspective drawing to accurately represent subjects of natural and human made forms.
4. Use a camera as a presentation device.

Assessment: Students in this course will be graded base on the following four categories:

1. **Writing Assignments:** reading report(s)
2. **Problem Solving Demonstrations:** exams and homework problems
3. **Skill Demonstrations:** class performance(s) and exam performance(s)
4. **Examinations:** completion and sketchbook

Repeatability: 1 time

Methods of Instruction: Lecture & Lab

Lecture Content:

1. Line drawing (forms in nature/human made forms)	5.00 %
2. Freehand Sketching	10.00 %
3. Line/tone drawing (natural and human made forms)	5.00 %
4. Sketching from observation	5.00 %
5. Shade and shadows in perspective	10.00 %
6. Sketching from landscape	5.00 %
7. Picture plan concept/lines of sight	5.00 %
8. Use of camera	5.00 %
9. Sketching human bodies	5.00 %
10. Values (exploration of techniques to portray value)	5.00 %
11. Forms of nature (drawing various examples)	5.00 %
12. Vocabulary (drawing several different building materials)	5.00 %
13. Architectural details (carefully rendered details)	10.00 %
14. Stylizations (study of simplified variations of showing entourage)	10.00 %
15. Architectural rendering (final perspective drawing)	10.00 %

Lab Content:

1. Freehand sketches.	50.00 %
2. Hand drawing projects.	50.00 %

Critical Thinking: Compare and contrast the various graphic techniques used to illustrate building materials.

College Level Required Reading, Writing, and other Outside-of-Class Assignments:

Over a 16 week presentation of the course, three hours per week are required for each unit of credit. Two hours of independent work done out of class are required for each hour of lecture. Outside of the regular class time the students in this class will be doing the following outside of class:

- **Study:** 1.00 additional hour
- **Problem solving activity or exercise:** 1.00 additional hour
- **Required reading:** 1.00 additional hour
- **Observation/Participation:** 1.00 additional hour

Textbook:

Ching Francis D. K. Design Drawing. First ed. John Wiley & Sons, Inc., 1998. ISBN: 9780471286547

Other Supplies:

1. Pens and Markers - Pilot Razor Point various size
2. Sketch Book - spiral bound, 100 pages, heavy medium finish plain paper, 9"x11", Strathmore
3. T-Square - 24" minimum
4. Paper - 8-1/2"x11" Clearprint, 1000H about 50 pages, can be tablet or a shared ream
5. Sketching Pencils - assorted of various lead weights, HB, B, 2B; Eagle "Draughting" #314, Round leads, standard wood or mechanical pencils, etc.
6. Illustration Board - as required for each project, usually Cold Press 18" x 24"
7. Erasers - kneaded, white
8. Mat Knife - Exacto handle, with #11 blades
9. Paper Tape - Masking, or drafting tape, or drafting dots
10. Parallel bar - 36" (for use at home)