

A. Course Information

Grade Level: 10-12.

Length of Course: Two semesters.

Type: Elective. This counts toward meeting the district's visual and performing arts graduation requirement. This course has been approved by UC for satisfying the "f" visual and performing arts category of course admission requirements.

Recommendation for Enrollment:

Completion of Drafting or Machine Drafting with a grade of "C" or better, or written permission of the instructor.

B. Brief Description of the Course:

One-half of the course will consist of architectural drawing and practical work. The other half will be used to gain information regarding the field of architecture. The student will be given problems which will test and develop creative skill.

C. Board-adopted Textbooks:

Wallach. Basic Architectural Drafting. (Southwestern) Adopted 1988.

Helper. Architecture, Drafting and Design. (McGraw/Webster) Adopted 1974.

D. Supplementary Instructional Materials:

Items listed below are commonly used as supplementary materials and are coordinated with the adopted course objectives:

1. Films and filmstrips
2. Overlay transparencies
3. Engineering encyclopedia
4. Machinery's handbook
5. Trade magazines and journals

E. Brief Outline of Course Content:

1. Architectural orientation
2. Architectural drafting careers and job skills
3. Architectural drawing procedures
4. History
5. Area Design
6. A set of plans
7. Pictorial Drawings
8. CAD

F. Behavioral Objectives for ARCHITECTURAL DESIGN:

The skills assessed in the district's Reading Comprehension, Writing, and Math Computations proficiency tests will be taught and reinforced in a manner appropriate to the content of this course.

The student will:

1. Architectural orientation
 - a. Explain the grading procedure, teacher expectations, and the different course offerings in the Architectural program.
2. Architectural drafting careers and job skills
 - a. Identify educational programs and training required for occupations or careers related to home design.
3. Architectural drawing procedures
 - a. Identify and demonstrate the correct use and care of equipment and materials used in architectural drafting.
 - b. Explain the use of various reference materials used in architectural design.
4. History
 - a. Explain the grading procedure, teacher expectations, and the different course offerings in the Architectural program.
 - b. Analyze personal and cultural values, goals, needs, and wants as they relate to how architectural design express physiological and social development.
5. Area Design
 - a. Analyze a set of blueprints (plans) in terms of safety, organization, and aesthetics.
 - b. Design and draw a kitchen using conventional practice.
6. A set of plans
 - a. Design a floor plan using conventional practices.
 - b. Draw a set of architectural plans with living space to meet individual and group functional and aesthetic needs including:
 - (1) Plot plan
Evaluate a plot and locate a house on the plot plan
 - (2) Foundation plan
 - (3) Floor plan
 - (4) Door and window schedules
 - (5) typical wall section
 - (6) Footing and construction details
 - (7) Exterior and interior elevations
 - (8) Roof plan
 - (9) Electrical plan
7. Pictorial drawings
 - a. Create an aesthetically pleasing pictorial drawing
8. CAD

9. Demonstrate proficiency and continuing improvement in the following “workplace skills,” as appropriate for the designated coursework.

I. Basic Employability Skills

- a. good grooming
- b. good manners, politeness and courtesy
- c. pride in a job well done
- d. honesty and high ethical standards
- e. punctuality
- f. good work attendance
- g. completes tasks independently
- h. good speaking skills
- i. good listening skills
- j. good penmanship
- k. follows directions
- l. basic keyboarding skills
- m. computer literacy

II. Employee Relations Skills

- a. able to work with teams of people
- b. cooperative attitude
- c. good interpersonal skills
- d. collaborates to problem-solve
- e. respects authority
- f. high cultural respect and sensitivity

III. Job Success Skills

- a. problem-solving skills
- b. decision-making skills
- c. critical thinking skills
- d. higher order thinking skills
- e. able to plan and complete a project
- f. willing to engage in lifelong learning
- g. math skills through algebra
- h. good reading and writing skills
- i. good articulation skills
- j. good study skills
- k. meets increasingly higher expectations
- l. bilingual
- m. able to use technical tools correctly and safely
- n. able to change from task to task
- o. knows how to learn what one doesn't know
- p. knows how to build upon what is known
- q. is a self-starter

G. Assessment Procedures:

- 1. Teacher-made tests
- 2. Student projects
- 3. Student-assigned checklist