

**FOLSOM CORDOVA UNIFIED SCHOOL DISTRICT**

**Course Outline  
Architectural Design**

**Date:** May 2002

**Proposed Grade Level(s):** 10 - 12

**Grading:** A-F

**Prerequisites:** Engineering Design

**Subject Area:** Technology

**Course Length:** 1 Year

**Number Of Credits:** 5/Semester

**COURSE DESCRIPTION:**

Architectural Design is a course that encompasses the principles of architectural planning and design. Given specific criteria of space, family size, environmental factors and other elements, students will design a single family home and construct of model. Students may use either the computer Aided Drafting techniques or use the traditional pencil drawing method. Age appropriate activities are designed for students will be an integral part of the course. All students will benefit from this course regardless of their respective learning styles, learning rates, or gender.

**GENERAL GOALS/PURPOSES:**

Increase the number of students who pursue Architectural Design technology programs requiring a four or two-year college degree.

Students will create, represent, and interpret ideas through drawing.

Students will demonstrate an understanding of the principles drafting equipment, CAD, materials, and procedures.

Students will demonstrate effective communication of information and solutions in architectural design in the technical society of modern living.

Students will develop interpersonal skills, work habits, and acquire information that will lead to employment in architectural design.

**STUDENT READING COMPONENT:**

Students will locate, understand, and interpret written information in documents such as manuals, graphs, and textbooks.

**STUDENT WRITING COMPONENT:**

Students will communicate thoughts, ideas, information, and messages in writing through letters, directions, reports, graphs, and flowcharts.

### **STUDENT ORAL COMPONENT:**

Students will communicate orally in giving directions to a project and short presentations.

### **STUDENT MATH COMPONENT:**

Students will perform basic and algebraic computations and approaches to practical problems by choosing appropriately from a variety of mathematical techniques.

### **DETAILED UNITS OF INSTRUCTION:**

1. Orientation
2. Architecture Techniques
3. Sketching/Drawing
4. Environmental Design
5. Interior Space Design/Floor Plan
6. Roof Plan
7. Elevation and Section with Construction Details
8. Plot Plan
9. Pictorial Drawing
10. Model Building

### **THIS COURSE WILL PREPARE STUDENTS FOR THE HSEE AND/OR THE FCUSD EXIT EXAMS:**

Math, Reading, Writing

**LAB FEE, IF REQUIRED:** \$20 per year

### **SUBJECT AREA CONTENT STANDARDS TO BE ADDRESSED:**

Industrial and Technology Education Content and Performance Standards 1996:

- Standard 1 Drafting
- Standard 2 Computer Aided Drafting

### **DISTRICT ESLR'S TO BE ADDRESSED:**

When students complete an Industrial and Technology Education course, they will be:

1. **Self-directed Learners** who will be able to solve engineering problems;
2. **Effective Communicators** who can express technology concepts to others effectively;
3. **Quality Producers** who can solve technology problems in a neat and organized manner;
4. **Constructive Thinkers** who are able to approach complex technology problems in a organized, logical, and systematic fashion;
5. **Collaborative Workers** who can work in teams to accomplish a task; and
6. **Responsible Citizens** who accept responsibility for their actions.