

8112
180 CLOCK HOURS
ARCHITECTURAL DRAFTING
Course Syllabus

INSTRUCTOR: Beth B. Fontenot

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CLASSROOM: Annex, Room 21
PLANNING PERIOD: MONDAY-FRIDAY: PLEASE SCHEDULE APPOINTMENT
OFFICE PHONE: BCHS 662-5815. Please leave a message and telephone number where you can be reached.

A. DESCRIPTION

This course provides the student with an overview of the basic concepts that are common in the area of residential planning and design. The steps in planning will enable the students to design a residence to meet given specifications. Emphasis is placed on the completion of a set of working drawings for home construction. Science, mathematics, and communication skills are reinforced in this course. Work-based learning strategies appropriate for this course include field trips and guest lectures. Job shadowing is at the discretion of the student and parent. This course and Technology Student Association technical and leadership activities enhance skills essential for students interested in technical and engineering career fields.

Prerequisite: Basic Technical Drafting

B. ORGANIZATION

This is a lecture-lab course in which topics are presented by the instructor, practice drawings are explained, and assigned drawings are completed by students during lab periods. Objective and drawing-type quizzes are given, and there is a comprehensive final exam.

C. COURSE OBJECTIVES

1. Research and apply FHA, city and state building codes and standards to residential plans.
2. Show examples of unique lettering styles and techniques.
3. Demonstrate the basic elements of architectural dimensioning.
4. Communicate verbally in the field of architecture.
5. Discuss architectural history and how it impacts modern day practices.
6. Identify architectural styles.
7. Evaluate a proposed construction project with reference to the cost of materials.
8. Develop a complete set of residential drawings.
9. Demonstrate the use of CADD through architectural computer programs.

D. COURSE TOPICS

The course will cover the following topics:

1. Introduction
2. Career Skills
3. Technology Student Association
4. General Safety
5. Residential Design & Planning
6. Complete Set of Drawings
7. General Room Planning
8. Architectural Lettering
9. Door and Window Schedules
10. Foundation Plan

11. Roof and Plot Plan
12. Typical Wall Section
13. Elevations
14. Details and Specifications
15. Computer-Aided Drafting
 - a. Apply intermediate CAD commands
 - b. Apply supplemental CAD commands
 - c. Set up and apply dimensioning techniques
 - d. Apply advanced CAD commands
 - e. Create and use symbols library
 - f. Set up plotting and printing equipment
 - g. Identify and use methods of creating solid 3D models

E. TEXT AND REQUIRED SUPPLIES

1. by J.R. Walker Exploring Drafting,
2. Basic Technical Drawing, by Spencer & Dygdon
3. Architecture: Residential Drawing and Design, by Clois E Kicklighter
4. Supplies: Lab Fee: \$20.00, Black 1"-1.5" Avery Durable Reference View Binder