

8110
180 Clock Hours
BASIC TECHNICAL DRAFTING
Course Syllabus

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

A. DESCRIPTION

This course provides students with a general overview of basic concepts common to the board field of technical drawing. Drafting is used to describe objects that cannot be effectively and precisely defined within the written words of language. This course develops students' ability to express ideas in pictorial form, describe objects using drawings, and read and understand projection methods and working drawings. 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 enhances skills essential for students interested in technical and engineering career fields.

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 both during lab periods and outside of class. Objective and drawing-type quizzes are given, and there is a comprehensive final exam. The course is a prerequisite for all courses in the Drafting and Design Technology program. Basic Technical Drafting students generally have had neither elementary nor high school drafting training. This basic drafting course assumes no previous drafting experience or training, and emphasis is focused on the use of equipment and basic procedures.

C. COURSE OBJECTIVES

1. Develop basic skills in proper use of drafting instruments and materials.
2. Develop an understanding of technical aspects of drafting.
3. Develop an appreciation for value of effective designs.
4. Foster an understanding of the importance of drafting in industry.
5. Explore the many technical careers that incorporate drafting

D. COURSE TOPICS

The course will cover the following topics:

1. Introduction to Drafting
2. Career Skills
3. Technology Student Association
4. General Safety
5. Lettering
6. Sketching
7. Care and Use of Equipment
8. Geometric Construction
9. Orthographic Projection
10. Dimensioning / Size Description
11. Pictorial Drawing (isometric and perspective drawing)
12. Pattern Development
13. Computer-Aided Drafting & Design

E. TEXT AND REQUIRED SUPPLIES

Exploring Drafting by J.R. Walker

Basic Technical Drawing, by Spencer & Dygdon

Architecture: Residential Drawing and Design, by Clois E Kicklighter

Supplies: **Lab Fee: \$20.00, Black 1" or 1.5" Avery Durable Reference View Binder**