STATE CODE 110570
180 CLOCK HOURS
CERTIFIED MECHANICAL APPRENTICE DRAFTER

INSTRUCTOR: Beth B. Fontenot

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

A. DESCRIPTION

The purpose of the Certified Mechanical Apprentice Drafter course is to prepare individuals with the necessary drafting knowledge including principles, standards, procedures and practices needed to develop design and production drawings in one or more of the various disciplines of the drafting profession. This 180 hour course, developed by the American Design Drafting Association, is organized into competency based units of instruction that specify occupational competencies which the student must successfully complete to receive appropriate credit. Upon completion of the course, students are evaluated using an Industry Based Certification Test issued by The American Design Drafting Association as evidence of knowledge learned.

- JumpStart Applicable. ADDA IBC Certified Mechanical Apprentice Drafter
- Dual Enrollment Available(South Louisiana Community College; Northshore Technical Community College)
- Prerequisite: Basic Technical Drafting and/or Advanced Technical Drafting or with instructor approval.
- Students participate in the NASA / HUNCH Project

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. Certified Mechanical Apprentice Drafter students should be on the 11th or 12th grade high school level.

C. COURSE OBJECTIVES

1. Develop basic skills in the proper use of drafting instruments and materials.
2. Develop an understanding of the technical aspects of drafting.
3. Develop an appreciation for the 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

To prepare student for CMAD testing through mastering the following course topics:

Abbreviations – Terms – Identification
Drafting Equipment – Media – Reproduction
Shapes – Lettering – Geometric Symbology
Dimensioning and Notations
Orthographic Projections-Identification and Terminology
Geometric Construction and Descriptive Geometry
Multi-view Drawing- Identification and Terminology
Sectional Views – Identification and Terminology
Auxiliary Views – Identification and Terminology
Pictorials – Identification and Terminology
Basic Welding – Symbols – Identification and Terminology
Basic Tolerancing – GD&T
Basic Math and Geometry – Drafting Math
Drawing Implementation – identification – Numbering - Drawing
Professionalism & The Workplace