



COURSE SYLLABUS

PO Box 1189
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Hamlet, NC 28345
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COURSE: DFT 110 BASIC DRAFTING

HOURS: Lecture: 1 Lab/Shop: 2 Work Exp/Clinical: 0 Credits: 2

COURSE DESCRIPTION:

This course introduces basic drafting skills, terminology, and applications. Topics include basic mathematics; sketching; introduction to CAD, ANSI, and ISO drafting standards; and a survey of various drafting applications. Upon completion, students should be able to perform basic calculations for CAD drafting, sketch drawings using appropriate standards, and recognize drawings from different drafting fields.

PREREQUISITE(S): None

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

To Be Determined

OTHER REQUIRED SUPPLIES AND MATERIALS:

Personal calculators to perform needed basic calculations.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Apply basic skills and techniques to the following: clean, use, and care of drafting equipment and tools.
2. Recognize and apply geometry rules to the solutions of drafting problems.
3. Apply the geometric construction techniques to draw accurate 2-D figures using the drafting tools.
4. Demonstrate proficiency in single – stroke lettering.
5. Apply standard dimensioning techniques to describe 3-D objects through orthographic projection and freehand drawing.
6. Identify the standard rules of pictorial drawings and apply them.
7. Distinguish and apply the standard rules of drawing accurate section views of 3-D objects.
8. Identify inclined surfaces of 3-D figures, and produce accurate auxiliary views.
9. Use the American dimensioning units system (English) and the International dimensioning units system (Metric) of the 2-D and isometric drawings.
10. Discuss the use the drafting trade, its development in other countries, and its impact on products drawings, design, manufacturing, employment, and the economy.
11. Use the Internet to navigate through websites related to technical drafting applications, and the American Design and Drafting Association (ADDA).
12. Identify and apply standard drafting practices, as part of the preparation process, for the National Certification Exam with ADDA during the coming Summer.

*****Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**