



COURSE SYLLABUS

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COURSE: DFT 151 COMPUTER AIDED DRAFTING I

HOURS: Lecture: 2 Lab/Shop: 3 Work Exp/Clinical: 0 Credits: 3

COURSE DESCRIPTION:

This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

PREREQUISITE(S): DMA 010-030 or MAT 060 or MAT 003 or BSP 4003, DRE 097 or RED 080 or ENG 002 or BSP 4002 or ENG 111

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Open Educational Resources (OER) are listed in the course Moodle

STUDENT LEARNING OUTCOMES:

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

1. Use the in-house CAD software commands to draw 2-D and isometric drawings.
2. Use the in-house CAD software commands to Dimension 2-D and isometric drawings.
3. Use the in-house CAD software commands to edit 2-D and isometric drawings.
4. Use the in-house CAD software commands to save and manage all drawing files.
5. Apply the in-house CAD software commands and "Design Center" to draw 2-D electrical and electronic diagrams, and related isometric components and equipments.
6. Describe and draw 2-D and isometric drawings using the American National Standard Institute (ANSI), and the International Organization for Standardization (ISO).
7. Describe and dimension isometric drawings applying the ANSI and ISO drafting standards.
8. Produce and plot, using the in-house plotter/printer, 2-D and isometric drawings, and electrical/electronics diagrams in harmony with the ANSI and ISO scales and paper sizes.
9. Use the American dimensioning units system (English) and the International dimensioning units system (Metric) of the 2-D and isometric drawings.
10. Use the Internet to navigate through websites related to CAD applications, vendor's updated software releases, CAD related publications/ magazines, societies, and the American Design and Drafting Association (ADDA).
11. Collect and apply standard drafting practices, as part of the preparation process, for the National Certification Exam with ADDA.
12. Discuss the use the CAD software (written in 16 languages) in other countries and its impact on products drawings, design, manufacturing, employment, and the economy.

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