

Course Outline

Winter 2005

Division: Business, Engineering & Information Technology
Program/Dept: Architectural Engineering Drafting
Course Number: TDR 112 Credits: 5 Variable:
Course Title: Basic CAD Drafting for Construction and Design
Inst. Intent: 21 Vocational Preparatory CIP: 15.1304
Fee: Yes Type: CL - Computer Lab Fee

Degree/Certificate Requirement: Yes
Name of Degree/ Architectural Engineering Drafting
Certificate Requirements: Associate of Applied Science Degree
Distribution Requirement for AA/AAS: Yes
Transfer Status to 4-year institution: No
If yes, please describe:
Course Length: Based on 11 wks/qtr. Class Size: 24
Course Contact Hours: 55
Lecture: 55 Lab: Clinical: Other:
Prerequisite: None If yes, please describe:
Required Placement Tests: No If yes, please describe:
Comments:

Course Description: Course continuation of TDR 111. Focus will be on usage of external sources, creation of blocks, paper space/model space, file management and exchange and plotting as it relates to construction/design applications. Isometrics and 3D concepts may be introduced. Prerequisite: TDR111 or instructor's permission. Open lab. Computer lab fee.

Course Outcomes/Learning Objectives:

1. To develop a intermediate skills with computer hardware and software.
2. To develop productive skills in the use of AutoCAD software.
3. To learn to draft quality drawings with accepted conventions and standards using CAD.

NSCC General Education Outcomes and/or Related Instructional Outcomes Met by Course:

1. Apply computer competency appropriate to general education and occupational goals.
3. Work and communicate effectively in groups.

Topical Outline and/or Major Divisions:

- I Introduction to TDR 112**
 - A. Course contents
 - B. Class procedures
 - C. Course objectives
- II Introduction to Equipment**
- III. Introduction to Software**
 - A. Computer aid drafting programs
 - B. The AutoCAD program - an overview
- IV. Introduction to AutoCAD Basics**
 - A. Disk management
 - B. Blocks and Attributes
 - C. External Source material
 - D. Drawing commands
 - E. Advanced Layering
 - F. Text and Dimensing styles
- GF. File Exchanges
- H. Plotting
- V. Introduction of Drawing Projects**
- VI. Evaluations**

Course Requirements (Expectation of Students):

Attendance, assignments, and quizzes as specified by the instructor.

Methods of Assessment/Evaluation:

To be determined by instructor.

Required Text(s) and/or Materials:

AutoCAD 2002, No Experience Required, D. Frey, Sybex ISBN 0-7821-4016-5

Supplemental Text(s) and/or Materials: Recommended- Graphic Guide Frame Construction, R. Thallon, The Taunton Press ISBN 0-942391-66-7

Outline Developed by: James Wall **Date:** 2/97

Revised by: James Wall **Date:** 2/02, 5/04