

Course Outline

Winter 2005

Division: Business, Engineering & Information Technology
Program/Dept: Architectural Engineering Drafting
Course Number: TDR 111 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: Introduces basic Computer Aided Drafting practices using Autodesk's AutoCAD program. Focus will be on drawing commands, layering, scaling, dimensioning and text styles as used in construction/design applications. Emphasis placed on developing production skills. The first of a two class sequence. Open lab. Computer lab fee.
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Course Outcomes/Learning Objectives:

1. To develop a basic understanding of computer hardware and software.
2. To develop skills in the use of CAD 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 111**
 - 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. Limits and scaling
 - C. Drawing commands
 - D. Layering
 - E. Dimensing styles
 - F. Text styles
 - G. Blocks
 - 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