



Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title - Specialized Basic Computer Aided Drafting (CAD)

Course Prefix and Number - DFTG1410

Department - Engineering Design

Division - Technology And Business

Course Type: (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours # : Lecture hours# : Lab/other hours # **4:3:3**

Equated Pay hours for course - $(3 + (3 * .5)) = 4.5$

Course Catalog Description - A supplemental course to Basic Computer Aided Drafting using an alternative computer-aided drafting (CAD) software to create detail and working drawings

Prerequisites/Co requisites - THEA reading requirement met or READ0307. DFTG1405 is recommended

List Lab/ Other Hours
Lab Hours 3
Clinical Hours
Practicum Hours
Other (list)

Prepared by Jo Ann Lurker

Date 10-20-11

Reviewed by department head Jo Ann Lurker

Date 10-20-11

Accuracy verified by Division Chair David Kucera

Date 10-28-11

Approved by Dean of Vocational Instruction or Vice President of Instruction Lac

Date 11-9-12



I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

- Computer work station components
- Operating System Basics: Data security, Disk and Folder Navigation, and Data management
- Overview of the MicroStation interface
- Creating New Drawing Files: Use of Seed Files and Working Units
- Basic Drawing Tools
- Basic Editing Tools
- AccuDraw operations
- Selection Tools: Select Element, PowerSelect, Select By Attributes and Fence
- Fence Operations
- Graphic Groups
- Locks
- Level Management
- Model Management
- Text Tools and Operations
- Dimensioning Tools and Techniques
- Cells and Patterning
- Reference Files

II. Course Learning Outcomes

Course Learning Outcome	Method of Assessment
Create, display, and plot working drawings using an alternative CAD software; and use file management system.	A semester project will be assessed using the departmental rubric. Eighty percent of the students will earn a minimum of 70% of the points defined by the rubric.

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

- Text Covering MicroStation Fundamentals such as Harnessing MicroStation V8, by Krishnan & Taylor
- Flash drive for archiving data files

IV. Suggested Course Maximum - 20

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

Computer Workstations, data projection system, plotters/printers and appropriate software

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

90% to 100%	= A
80% to 89%	= B
70% to 79%	= C
60% to 69%	= D
Below 60%	= F

The grade is based on the average of : written examinations, drawing projects and daily work as specified on the class syllabus.

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:
 - Basic Intellectual Competencies
 - Perspectives
 - Exemplary Educational Objectives

- **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.