



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

Course Prefix and Number – DFTG 1410

Department- Engineering Design

Division - Technology/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 - 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 – Must be TSI satisfied.

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

Prepared by Jo Ann Shimek

Date 06/11/15

Reviewed by Department Head Jo Ann Shimek

Date 06/11/15

Accuracy verified by Division Chair: David Kucera

Date: 07/20/15

Approved by Dean or Vice President of Instruction: Leigh Ann Collins

Date: 12-18-15



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

Learning Outcomes	Methods of Assessment
<p>Upon successful completion of this course, students will:</p> <p>Create, organize, display, and plot/print working drawings using an alternative computer-aided CAD software; and use file management techniques.</p>	<p>Daily Drawings/Lab Work Four to Five Major Exams or Drawings Comprehensive Final Project</p> <p>(All drawings evaluated in terms of accuracy of drawing views, use of line types, line quality, dimensioning accuracy and placement and drawing organization.)</p>

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

Required: Text Covering MicroStation Fundamentals such as Harnessing MicroStation V8, by Krishnan & Taylor

A flash drive is required for archiving data files

Note book to store notes and drawings.

IV. Suggested Course Maximum - 20

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

Computer work stations, plotters/printers, data projection system 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

Daily Drawings/Lab Work/Daily Quizzes to assure comprehension of drafting skills 35%

Four to Five Major Exams or Drawings covering individual topics 35%

Comprehensive Final Project 30%

Comprehensive Final Project will include creating a Title Block with levels, text styles and dimension styles in a specified seed file. Drawing creation will reinforce students ability to use draw, edit and modify commands. Creation and insertion of cells and use of the hatch/pattern command will be included in the project. Drawings will be complete with dimensions placed per ASME standards. All Drawings will be plotted to a given scale. All project work will be submitted as specified by the instructor.

Based on the above breakdown, grades will be awarded as perscribed by Wharton County Junior College Standards.

90% to 100% = A

80% to 89% = B

70% to 79% = C

60% to 69% = D

Below 60% = F

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.