



**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** - Intermediate Computer-Aided Drafting

**Course Prefix and Number** – DFTG 2319

**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 #:** 3:2:4

**Equated Pay hours for course** - 4

**Course Catalog Description** - A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data and basics of 3D.

**Prerequisites/Co-requisites** – DFTG 1405 & DFTG 1409

List Lab/ Other Hours
Lab Hours 4
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:** 07/15/15

**Approved by Dean or Vice President of Instruction:** Leigh Ann Colins

**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):

- Review of the Operating System, File Name Conventions and File Extensions
- File Organization and Storage
- Advanced Dimension Techniques and Methods
- Paper Space/Layout with Viewports
- Template Files
- Reference Files
- Dynamic Blocks
- Create Attributes and Extract Data to Excel files
- Table Command to Create Bill of Material
- 3D Drawings

**II. Course Learning Outcomes**

<b>Learning Outcomes</b>	<b>Methods of Assessment</b>
<p><b>Upon successful completion of this course, students will:</b></p> <p>Produce 2D and 3D drawings, pictorial drawings;</p> <p>Use external referencing of multiple drawings to construct a composite drawing;</p> <p>Import and extract data utilizing attributes.</p>	<p>Daily Drawings/Lab Work/Daily Quizzes Four to Five Major Exams or Drawings 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: AutoCAD 2015 Tutor for Engineering Graphics (2014) by Kalameja/Lang et al  
Required: Technical Drafting (latest edition) by Giesecke et al

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 - 35%  
Four to Five Major Exams or Drawings - 35%  
Final Project - 30%

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.