Course Information

Course Title	Intermediate Computer-Aided Drafting
Course Prefix, Num. and Title	DFTG2319: Intermediate Computer-Aided Drafting
Division	Technology & Business
Department	Engineering Design
Course Type	WECM Course
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.
Pre-Requisites	DFTG1405 & DFTG1409
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours: Lab/Other Hours	3:2:4
Equated Pay Hours	4
Lab/Other Hours Breakdown: Lab Hours	4
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and 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

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

Produce 2D and 3D drawings, pictorial drawings;
Use external referencing of multiple drawings to construct a composite drawing;
Import and extract data utilizing attributes.

Methods of Assessment:

Daily Drawings/Lab Work/Daily Quizzes
Four to Five Major Exams or Drawings
Final Project
(All drawings evaluated in terms of accuracy of drawing views, use of line types, line quality, dimensioning accuracy and placement and drawing organization.)

Required text(s), optional text(s) and/or materials to be supplied by the student:

An example is AutoCAD 2019 Instructor by Leach, Lockhart, Tilleson.
A flash drive is required for archiving data files
Note book to store notes and drawings.

Suggested Course Maximum:

20

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

Computer work stations, plotters/printers (to print large 36" by 24" drawings), data projection system and appropriate software

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 prescribed 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

Note: A letter grade of "C" or above average must be achieved in all degree specific classes to attain graduation.

Curriculum Checklist:

☐**Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.

☐**Administrative WCJC Core Course**. Attach the Core Curriculum Review Forms

    ☐Critical Thinking

    ☐Communication

    ☐Empirical & Quantitative Skills

    ☐Teamwork

    ☐Social Responsibility

    ☐Personal Responsibility

☒**WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist