

# **Administrative Master Syllabus**

## **Course Information**

Course Title	Advanced Computer-Aided Drafting		
Course Prefix, Num. and Title	DFTG2432: Advanced Computer-Aided Drafting		
Division	Technology & Business		
Department	Engineering Design		
Course Type	WECM Course		
Course Catalog Description	Application of advanced CAD techniques.  This will include database management, advanced skills in Viewports and reference files, sheet sets, customized linetypes and hatch patterns, AutoLisp, writing skills and AutoDesk Inventor.		
Pre-Requisites	DFTG2319		
Co-Requisites	None		

## **Semester Credit Hours**

Total Semester Credit Hours (SCH): Lecture Hours:	4:3:3		
Lab/Other Hours			
Equated Pay Hours	4.5		
Lab/Other Hours Breakdown: Lab Hours	3		
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:		

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#### **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).

Customize Toolbars & Create Macros Advanced Skills in Viewports, Template Files and Reference Files Sheet Sets and Page Set-up Customized Linetypes and Hatch Patterns Database Design; dbConnect; SQL Basics Technical writing skills

#### **Course Learning Outcomes:**

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

Use a customized CAD system to create documents and/or solid models; Use OLE with external software.

Demonstrate use of AutoCAD sheets sets in multi-page set of drawings

#### Methods of Assessment:

Daily Drawings/Lab Work/Daily Quizzes Four to Five Major Exams or Drawings Class Discussion/Participation 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:

Required: Using Advanced AutoCAD (select author) 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, 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 – 25%
Four to Five Major Exams or Drawings – 35%
Class Discussion/Participation – 10%
Final Project – 30%

Final Project requires research into varied topics with team participation to produce drawings and documents on the individual team's topic. Emphasis is placed on individuals' ability to work within a group.

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Based on the above breakdown,	grades will be awarded	I as prescribed by	Wharton Coun	ity Junior C	ollege
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
<b>■ WECM Course</b> -If needed, revise the Program SCANS Matrix and Competencies Checklist

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