

# Administrative Master Syllabus

# **Course Information**

Course Title	Civil Drafting 1		
Course Prefix, Num. and Title	DFTG 1430 Civil Drafting 1		
Division	Technology & Business		
Department	Engineering Design		
Course Type	WECM Course		
Course Catalog Description	Preparation of civil drawings including drafting methods and principles used in civil engineering.		
Pre-Requisites	DFTG 1405 & DFTG 1409		
Co-Requisites	MATH1316		

# **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:		

# **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).

Map Symbols - Identify map symbology Map Scales - Convert R/F scales to Graphic scales and vice versa Contours - Layout existing and grade-line contours Plan and Profile - Layout contours, create plan and profile drawings Plats - Layout traverses using bearings, deflection angles, distances and coordinates Drainage - Create drawings for drainage systems Azimuths and Bearings - Layout traverses using bearings, deflection angles, distances and coordinates Range and Townships - Identify and use legal land descriptions Curve Data - Calculate curve data Land Development - use property deed (written description) to draw a plat using CAD techniques Survey Basics/Easements - Identify and use legal land descriptions and survey data to create plat drawing Civil Terminology - Identify terms used in civil work

### **Course Learning Outcomes:**

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

Interpret field notes;

Develop documents for a civil project related to drainage and utilities infrastructure, to include a comprehension of related calculations.

#### Methods of Assessment:

Given survey data in chart form, students produce a plat Use court legal description to draw parcel of land by interpreting metes and bounds; Create a legend, boundary markers, etc. and use this parcel of land to create a subdivision Combine contours, plan and profile & 3D civil design Curve Data The above assignments are evaluated using the ED Program Rubric.

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

A text covering the technical material covered in this course. An example would be Civil Drafting Technology by Madsen, Shumaker, Madsen 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.

Computers with CAD 2D and 3D software. Plotters capable of printing 34" x 44" drawings.

**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 – 40% Three to Four Major Exams or Drawings covering individual topics – 30% Civil Design Project – 30%

Based on the above breakdown, grades 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.

 $\Box$  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