

Administrative Master Syllabus

Course Information

Course Title	Architectural Drafting - Residential
Course Prefix, Num. and Title	DFTG 1417: Architectural Drafting - Residential
Division	Technology and Business
Department	Engineering Design
Course Type	WECM Course
Course Catalog Description	Preparation of architectural drawings for residential structures with emphasis on light frame construction methods, including architectural drafting procedures, practices, terms, and symbols. This is a capstone experience for the Architectural Design L1 Certificate.
Pre-Requisites	DFTG 1405 and credit for or concurrent enrollment in DFTG 2319.
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	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Division Chair:	David Kucera, Technology & Business Division Chair	08-01-2023

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).

- Residential Building Plans
- Foundation Plan
- Floor Plan
- Elevations & Wall Sections
- Residential Planning
- Budget
- Property Restrictions
- Building Site Considerations
- Family Structure
 - Space Planning
 - Traffic Considerations
 - Drawing Conventions
- Dimensioning
 - Symbols
 - Line Quality
 - Lettering Skills
- Structural Members Building Materials & Construction Techniques
- Foundations Systems
 - Wall Systems
 - Roof Systems
 - Electrical System
 - Rendering Techniques
 - Shade & Shadows in Elevations
- Drafting techniques in section drawings & details

Course Learning Outcomes:

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

Utilize architectural terms, symbols, residential construction materials, and processes to produce a set of residential construction drawings including site plan, floor plan, elevations, wall sections, schedules, details, and foundation plan using reference materials.

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.)

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

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

Required: An example would be Drafting & Design for Architecture and Construction by Hepler, Wallach, and Hepler
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 workstations, 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 = 30%

Four to Five Major Exams or Drawings = 40%

Final Project = 30%

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