**Course Title**: Architectural Drafting - Residential  
**Course Prefix and Number**: DFTG1417  
**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 #: 4:3:3**

<table>
<thead>
<tr>
<th>List Lab/Other Hours</th>
<th>Lab Hours</th>
<th>Clinical Hours</th>
<th>Practicum Hours</th>
<th>Other (list)</th>
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</table>

**Equate Pay hours for course**: 4.5

**Course Catalog Description**: Architectural drafting procedures, practices, terms, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods.

**Prerequisites/Co-requisites**: DFTG 1409 and DFTG 1410; ENGR 1304 for Construction Management Majors.

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**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**: 07/25/15

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

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

II. Course Learning Outcomes

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
<th>Methods of Assessment</th>
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</thead>
<tbody>
<tr>
<td>Upon successful completion of this course, students will:</td>
<td>Daily Drawings/Lab Work/Daily Quizzes</td>
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<tr>
<td>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.</td>
<td>Four to Five Major Exams or Drawings</td>
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<td></td>
<td>Final Project</td>
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<tr>
<td></td>
<td>(All drawings evaluated in terms of accuracy of drawing views, use of line types, line quality, dimensioning accuracy and placement and drawing organization.)</td>
</tr>
</tbody>
</table>
III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

Required: An example would be Architectural Drawing and Light Construction by Muller, Fausett and Grua

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 - 30%
Four to Five Major Exams or Drawings - 40%
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

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.