

## Architectural Drafting-Residential (DFTG 1317)



**Credit:** 3 semester credit hours (2 hours lecture, 4 hours lab)

**Co-requisite:** DFTG 1305; DFTG 1310

### Course Description

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

### Required Textbook and Materials

1. *Architectural Drafting and Design* by Allen Jefferis, David A. Madsen, David P. Madsen (ISBN number is 13: 978-1-4354-8162-6). (Optional).
2. *Architectural graphics Standards* by Ramsey/Sleeper Student Edition (optional).
3. Loose leaf Notebook, 1" minimum, 3 ring binder & tabs.
4. Minimum 512K USB Mass Storage Device (Pen Drive).

### Course Objectives

Upon completion of this course, the student will be able to:

1. Utilize architectural terms, symbols, residential construction materials, and processes to produce a set of residential construction drawings. Scans: C5-3,C6-3,C7-3
2. Produce site plan, floor plan, elevations, wall sections, schedules, details, and foundation plan drawings using reference materials. Scans: C5-3,C6-3,C7-3

### SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

### Course Outline

- |   |                                  |
|---|----------------------------------|
| A. Introduction                         | 2. Layout Procedures             |
| 1. Introduction of faculty and students | 3. Working Drawing               |
| 2. Review Syllabus                      | 4. Details, dimensions and notes |
| 3. Review Class Policies                |                                  |
| 4. Review Lab Assignments               | C. Floor Plans                   |
| B. Site Plans                           | 1. Terms & symbols               |
| 1. Terms & Symbols                      | 2. Layout procedures             |
|   | 3. Working Drawing               |

Approved 01/2013

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4. Details, dimensions and notes
5. Stair layout
6. Kitchens, bathrooms, closets & room sizes and relationships.
7. Floor plan dimensioning & notes on drawing document.

5. Terms & symbols
6. Layout procedures
7. Working Drawing
8. Details, dimensions and notes
9. Foundation section details dimensions and notes

**D. Roof Plans**

1. Terms & symbols
2. Layout procedures
3. Working Drawing
4. Details, dimensions and notes

**G. Electrical Plans**

1. Terms & symbols
2. Layout procedures
3. Working Drawing
4. Notes

**E. Exterior Elevations**

1. Terms & symbols
2. Layout procedures
3. Working Drawing
4. Details, dimensions and notes
5. Elevation sections (light frame construction methods)
6. Wall sections
7. Interior elevation layout process

**H. Extra Details**

1. Terms & symbols
2. Layout procedures
3. Working Drawing
4. Room finish schedules
5. Door and window schedules
6. Plumbing fixtures schedule
7. Tile, carpet, & various other schedules

**F. Foundation Plans**

**Grade Scale**

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

**Course Evaluation**

Final grades will be calculated according to the following criteria:

<i><b>Activity</b></i>	<i><b>Percentage</b></i>
Announced Test	30%
Drawing Projects	60%
Microstation File Documents	5%
Participation	5%
<i><b>Total for Course</b></i>	<i><b>100%</b></i>

**Note:** The instructor of this course reserves the right to alter the percentages and activity groups of this course. The Grading Scheme is accurate as of the beginning of the semester, however, it may change according to circumstances unforeseen or unknown at this time.

### **Announced Test Policy**

1. If you miss a scheduled test due to illness or injury come by and see me as soon as you are back – Do Not wait until the next class period.
2. If you have a valid Doctors excuse, I will reschedule the test.
3. If you DO NOT have a Doctors excuse you must take the test as soon as possible. You will receive a 20-point deduction penalty on the test score. For every class day that you do not take the test there will be an additional 10 points deducted on your test score per class day thereafter.

### **Drawing Document Grade**

1. THE INSTRUCTOR WILL NOT ACCEPT DRAWING DOCUMENTS UNTIL THEY ARE COMPLETE AND CORRECT PER HIS REQUIREMENTS. It is your responsibility to see that all red marks, comments and similar items, even if not marked up, are picked up - high light red marks off as you pick them up. I reserve the option to deduct points from the final grade on assignments if I have to mark the same item again on a plot, or if you do not return all prints containing red marks. All previous mark-ups are to accompany each recheck and to be turned in with final print.
2. If you have a question on the proper way to draw an item or an area, notes, dimensions, etc. – run an 8.5” x 11” print of the area – DO NOT run a plot.
3. Run an 11” x 17” prints/plots for the instructor’s review until you are given the OK by the instructor to run a 20” x 32” plot for review.
4. Your 11” x 17” drawing document grade will have a 10 point penalty for every class day that it is late. Ten points will be added to your grade for turning in the drawing before the assigned due date.

### **MICROSTATION File Document Grade**

1. Create a folder called DFTG 1317 on your Z: drive and store all your drawings in it.
  - a. I will only grade drawing files that are in it.
  - b. I will not grade the drawing file until the drawing is complete. At the end of the semester I will grade all remaining files.
  - c. Be sure you have the latest and correct drawing file stored in the folder. If the file is not there, or it is not what you turned in on a hard copy, you will receive a zero for the grade. If you change it and ask me to recheck it, it will cost you 20 points off the grade if I have the time to regrade it before the end of the semester.
2. The drawing document files will be evaluated per the following file evaluation form:
  - a. Correct Master Folder File Name.
  - b. Each subfolder is created and listed as required.
  - c. Each drawing file assigned is in its DFTG 1317 respective file folder.

### **Course Requirements**

1. Read study guide handouts, Power point presentations, and other handouts and reference materials the instructor specifies.
2. Show up for classes and listen to lectures.
3. Take announced tests.
4. Create drawings as assigned.

### **Participation Policy**

1. Missing more than 20% of classes will result in an automatic “F” for the course.
2. Late more than 15 minutes equals one absence!
3. Being tardy 3 times equals 1 absence. Tardy is not only being late to class but also taking more than a 15 minute break and leaving before the end of class.

### **Participation Policy**

For every absence above five absences there will be one percentage point taken off your end of semester grade up to and no more than five percent for each absence.

### **Course Policies**

1. No food, drinks, or use of tobacco products in class.
2. No foul or harsh language will be tolerated. Students who disrupt the class or act unruly will be dismissed from class and appropriate disciplinary action will result.
3. No discussion of your social life and/or problems during a lecture or lab – this needs to be done outside of the classroom.
  - a. No talking while the instructor is lecturing.
  - b. Do not interrupt a lecture – raise your hand.
  - c. Keep discussion of assignments to a low level (voice level) during lab time.
4. The use of Cell phones, Beepers, or text messaging without prior approval, is not permitted during class. Listening to music and using earplugs or earbuds are not permitted in class. (Employers do not allow them on the job.)
  - a. Turn your cell phones, beepers, or text messaging off during class and put them up. If I see your phone out, I will assume that you feel it is more important than the class material and I will therefore count you absent for that day.
  - b. If you leave the class room during class time, I will assume you are answering the phone or text messaging and will count you absent.
  - c. If you have a justifiable reason or emergency situation where you need to receive phone calls or text messages, discuss this with me before class, and we will make accommodations for that day.
5. Do not bring Laptops to class. Use only lab computers to do your work.

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6. Do not bring children to class.
7. No Cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can be removed from the class for the semester. Cheating can result in expulsion from LIT.
8. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
9. Internet Usage
  - a. Classroom computers have access to the internet.
  - b. Student usage of the internet will be monitored.
  - c. Proper usage of the internet will be allowed. Used for classroom research or as directed.
  - d. Any unauthorized use of the internet will not be tolerated.
  - e. Improper usage of the internet, such as profanity, pornography, gambling, etc... will result in disciplinary action not limited to expulsion from LIT.
10. Lost work and corrupted files
  - a. Lost work and corrupted files will not extend due dates or alter course requirements.
  - b. It is your responsibility to: save often!!!
  - c. Make multiple backup copies of your work. (On your Z: drive and your USB jump drive).

**Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

**Course Schedule**

Week	Topic	Reference
1	Course introduction and Policies, Site Plans <ul style="list-style-type: none"><li>• Lecture: Site Plans Terms &amp; Symbols</li><li>• Lab: Layout procedures, Working Drawings, Details Dimensions &amp; Notes.</li></ul>	Handouts & Power Point Presentations
2	Site Plans <ul style="list-style-type: none"><li>• Lecture: Terms &amp; Symbols</li></ul>	Handouts & Power Point Presentations

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<b>Week</b>	<b>Topic</b>	<b>Reference</b>
	<ul style="list-style-type: none"> <li>• Site Plan Test</li> <li>• Lab: Layout procedures, Working Drawings, Details Dimensions &amp; Notes.</li> <li>• Site Plan Drawing Due</li> </ul>	
3	Floor Plans <ul style="list-style-type: none"> <li>• Lecture: Floor Plan Terms &amp; Symbols</li> <li>• Lab: Layout procedures, Working Drawings</li> <li>• Kitchens</li> </ul>	Handouts & Power Point Presentations
4	Floor Plans <ul style="list-style-type: none"> <li>• Lecture: Floor Plan Terms &amp; Symbols</li> <li>• Floor Plans Test</li> <li>• Lab: Layout procedures, Working Drawings, Dimensions &amp; Notes.</li> <li>• Bathrooms</li> </ul>	Handouts & Power Point Presentations
5	Floor Plans <ul style="list-style-type: none"> <li>• Lecture: Floor Plan Terms &amp; Symbols</li> <li>• Lab: Layout procedures, Working Drawings, Dimensions &amp; Notes.</li> <li>• Room &amp; Closet Sizes and Relationships</li> </ul>	Handouts & Power Point Presentations
6	Floor Plans <ul style="list-style-type: none"> <li>• Lecture: Floor Plan Terms &amp; Symbols</li> <li>• Floor Plans Test</li> <li>• Lab: Layout procedures, Working Drawings Notes</li> <li>• Stair layout</li> <li>• Floor Plan Dimensioning and Notes on Drawing Document</li> <li>• Floor Plan Drawing Due</li> </ul>	Handouts & Power Point Presentations
7	Roof Plans <ul style="list-style-type: none"> <li>• Lecture: Roof Plan Terms &amp; Symbols</li> <li>• Lab: Layout procedures, Working Drawings, Dimensions &amp; Notes.</li> </ul>	Handouts & Power Point Presentations
8	Roof Plans <ul style="list-style-type: none"> <li>• Lecture: Roof Plan Terms &amp; Symbols</li> <li>• Roof Plan Test</li> <li>• Lab: Layout procedures, Working</li> </ul>	Handouts & Power Point Presentations

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<b>Week</b>	<b>Topic</b>	<b>Reference</b>
	Drawings, Dimensions & Notes. • Roof Plan Drawing Due	
9	Elevations • Lecture: Terms & Symbols • Lab: Layout procedures, Working Drawings, Details Dimensions & Notes. • Elevation Sections (light frame construction methods) • Wall Sections • Interior Elevation Layout Process	Handouts & Power Point Presentations
10	Elevations • Lecture: Terms & Symbols • Elevations Test • Lab: Layout procedures, Working Drawings, Details Dimensions & Notes. • Elevation Sections (light frame construction methods) • Wall Sections • Interior Elevation Layout Process • Elevations Drawing Due	Handouts & Power Point Presentations
11	Foundations & Sections • Lecture: Terms & Symbols • Lab: Layout procedures, Working Drawings, Details Dimensions & Notes. • Foundation Section Details And Notes	Handouts & Power Point Presentations
12	Foundations & Sections • Lecture: Terms & Symbols • Foundations Test • Lab: Layout procedures, Working Drawings, Details Dimensions & Notes. • Foundation Section Details And Notes • Foundation Drawing Due	Handouts & Power Point Presentations
13	Electrical Plans • Lecture: Electrical Terms & Symbols • Electrical Test • Lab: Layout procedures, Working Drawings, & Notes.	Handouts & Power Point Presentations

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<b>Week</b>	<b>Topic</b>	<b>Reference</b>
14	Electrical Plans <ul style="list-style-type: none"><li>• Lecture: Electrical Terms &amp; Symbols</li><li>• Electrical Test</li><li>• Lab: Layout procedures, Working Drawings, &amp; Notes.</li><li>• Electrical Drawing Due</li></ul>	Handouts & Power Point Presentations
15	Details <ul style="list-style-type: none"><li>• Lecture: Details Terms, Symbols &amp; Schedules</li><li>• Lab: Layout procedures, Working Drawings</li><li>• Room Finish Schedules</li><li>• Door and Window Schedules</li><li>• Plumbing Fixture Schedule</li><li>• Tile, Carpet &amp; Various Other Schedules</li></ul>	Handouts & Power Point Presentations
16	Details <ul style="list-style-type: none"><li>• Lecture : Details Terms, Symbols &amp; Schedules</li><li>• Details Test</li><li>• Lab: Layout procedures, Working Drawings</li><li>• Room Finish Schedules</li><li>• Door and Window Schedules</li><li>• Plumbing Fixture Schedule</li><li>• Tile, Carpet &amp; Various Other Schedules</li><li>• Detail Drawing Due</li></ul>	Handouts & Power Point Presentations

**Contact Information**

**Instructor:** Mr. Michael Betar  
**Office:** Building: T5 Room: 108B  
**Telephone:** (409) 839-2060  
**E-mail:** michael.betar@lit.edu  
**Office Hours:** 7:30 am -8:00 AM & 11:30-12:30PM - M, W. F.  
11:45-12:15 AM & 2:45 PM -3:45 PM- T, R,



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**SIGNOFF SHEET**

I have read and understand the “Syllabus for Courses DFTG1317-6AD Architectural Drafting - Residential

Student’s signature: \_\_\_\_\_

Printed name: \_\_\_\_\_