



Final Project – Advanced Drafting (DFTG 2338)

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

Prerequisite/Co-requisite: DFTG 2319, ARCE 1352

Course Description

A drafting course in which students participate in a comprehensive project from conception to conclusion.

Required textbook and materials

1. *Pipe Drafting and Design*, 3rd edition, by Roy A. Parish and Robert A Rhea, Gulf Professional Publishing
 - a. ISBN number is 978-0-12-384700-3
2. Flash Drive – 1GB minimum
3. Notebook
4. Basic sketch equipment, pencil, straight edge, graph paper
5. Calculator
6. Access to computer with AutoCAD

Course Objectives

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

Conceptualize, design and present a complete project in a prescribed discipline; integrate problem solving and related technologies to identify solutions; use discipline specific industry standards and produce documentation for the final steps in fabrication completion of any civil / structural / piping project.

1. Identify, organize, plan and allocate resources
2. Acquire and organize information
3. Work with others as a team
4. Understand complex systems
5. Work with a variety of technologies

Course outline

- | | |
|--------------------------------------|---------------------------|
| A. Introduction | 2. Create a resume |
| 1. Introduction of faculty and staff | 3. Interview |
| 2. Review syllabus | C. Petro-chemical project |
| 3. Review class policies | 1. Proposal drawings |
| 4. Review lab assignment | 2. Complete project |
| B. Getting started | 3. Revisions |
| 1. Create a cover letter | 4. As-builts |
| | D. Architectural phase |

1. Proposal drawings
 2. Complete project
 3. Revisions
 4. As-builts
- E. Civil phase
1. Proposal drawings
 2. Complete project
 3. Revisions
 4. As-builts
- F. Structural phase
1. Proposal drawings
 2. Complete project
3. Revisions
 4. As-builts
- G. Piping phase
1. Proposal drawings
 2. Complete project
 3. Revisions
 4. As-builts
- H. Electrical phase
1. Proposal drawings
 2. Complete project
 3. Revisions
 4. As-builts

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:

Activity	Percentage
Assignments and notebook and participation	20%
Quizzes	20%
Projects	40%
Final	20%
Total	100%

Late penalties will be assessed on all work turned in late, 5 points per day

Course requirements

1. Taking of general notes and sketches to be placed in a general notebook
2. Create final project drawings

Attendance Policy (all work during absence must be made up)

1. 5 absences allowed – 4 tardies are equivalent to 1 absence
2. 2 points per absence off final grade after 5 initial absences

Course Policies

1. No food, drinks, or use of tobacco products in class.
2. No foul or harsh language will be tolerated
3. Turn off all Cell Phones during lectures
4. Headphones may be worn only upon Instructor approval

5. Do not bring children to class.
6. No Cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
7. 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.
8. BACK-Ups
It is the student's responsibility to make back-up copies of their work. Do not rely on the server to be their 100% of the time. I cannot help you if you lose your work. Remember that in order for your work to be graded, it must be in your account on the server.
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.

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 in the Cecil Beeson Building.

Course Schedule

Week	Topic	Reference
1	Course introduction and policies <ol style="list-style-type: none">a. Lectureb. Lab: standard drawing set-up	Handouts
2/3/4	Pipe facility <ol style="list-style-type: none">a. Lectureb. Lab: design pipe facility 2D and 3D	Ch 10
5/6/7	Architectural <ol style="list-style-type: none">a. Lectureb. Lab: design architectural drawings 2D and 3D	Handouts
8	Pic to drawing <ol style="list-style-type: none">a. Lectureb. Lab: create drawing from picture	Handouts

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Course Syllabus

9/10/11	Facility a. Lecture b. Lab: create facility with all discipline components	Handouts
12/13	X-ref a. Lecture b. Lab: link project using xref	Handouts
14/15	Structural a. Lecture b. Lab: design structural facility	Handouts
16	Final project a. Lecture b. Lab: as assigned	

Contact information

Contact info varies per instructor

Refer to Calendar for important dates and course schedules!