



## **Civil Site Preparation (DFTG 2330)**

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

**Prerequisite/Co-requisite:** DFTG 2319, DFTG 2332, DFTG 2338

### **Course Description**

An in-depth study of drafting methods and principles used in civil engineering

### **Required textbook and materials**

1. Civil Drafting Technology, 7<sup>th</sup> edition, Pearson publishing
  - a. ISBN # is 9780135000687
2. Basic sketch equipment
3. Graph paper – 8½” X 11”, 4 squares per inch
4. Engineers scale
5. Flash Drive – 1GB minimum
6. Notebook
7. Access to computer with AutoCAD
8. Calculator

### **Course Objectives**

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

1. Learn and implement civil standards and make template drawing
2. Learn and use vocabulary and terminology frequently used in civil engineering
3. Understand and prepare contour and grading drawings
4. Learn to operate basic surveying equipment to get site elevations
5. Understand and prepare legal descriptions for properties
6. Understand and prepare erosion control drawings
7. Understand and prepare plan and profile (PnP) drawings
8. Design site drawing locating development of building foundation
9. Design site drawing locating parking lot and drainage meeting building and zoning codes

### **Course outline**

- A. Introduction
  1. Introduction of faculty and staff
  2. Review syllabus
  3. Review class policies
  4. Review notebook and file saving policies
- B. Drawing standards
  1. Drawing set-up for civil standards
  2. Standard units

DFTG 2330  
Course Syllabus

3. Standard scales
4. Prepare a standard template for civil drawings
5. Review X-REF file usage
- C. Terminology
  1. Make a vocabulary list of frequently used civil terms with definitions
- D. Property surveys
  1. Review different types of legal descriptions
  2. Prepare legal descriptions
- E. Surveying equipment
  1. Review different types of equipment
  2. Use different types of equipment
  3. Translate elevations from instrument read to actual elevations
  4. Prepare existing and proposed grade elevation drawings
- F. Contours
  1. Displaying and meaning of different contour styles
  2. Prepare contour drawings
- G. Erosion control
  1. Learn the reasons for erosion control
  2. Prepare existing and proposed erosion control drawing
- H. Plan and profile (PnP)
  1. Learn the methods involved in making PnP drawings
  2. Prepare PnP drawing

### 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
Field work	20%
Drawings	30%
Assignments	10%
Test and notebook	20%
Final	20%
<b>Total</b>	<b>100%</b>

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

### Course requirements

1. Drawing set-up
2. Learn civil vocabulary and standards
3. Store and retrieve drawings and blocks

4. Create legal property description
5. Create contour drawings
6. Use survey equipment and create drawings
7. Create erosion control drawings
8. Create PnP drawings

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

1. 20% absences allowed – 4 tardies are equivalent to 1 absence
2. Miss more than 20% of classes and receive an F for the course

**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 in 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 there 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 turned in.
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.
  - 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.

### **Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at [www.lit.edu](http://www.lit.edu) or obtained in print upon request at the Student Services Office.

### **Contact information**

Contact info varies per instructor

**Refer to Calendar for important dates and course schedules!**