Electrical Drafting 202610.DFTG2307.1A1

CREDIT
3 Semester Credit Hours (2 hours lecture, 4 hours lab)

MODE OF INSTRUCTION
Hybrid

PREREQUISITE/CO-REQUISITE:

DFTG 1309 or DFTG 1313

COURSE DESCRIPTION

A study of area lighting, control systems and power layouts, electrical and safety codes, load factors and distribution requirements.

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

1. Create electrical details and diagrams.
2. Identify current standards to size conductors, conduit and controllers.
3. Calculate load factors and electrical distribution requirements.
4. Apply National Electric Code (NEC) standards for electrical safety.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Stanley Spooner
Email:	saspooner@lit.edu
Office Phone:	409-247-5214
Office Location:	Building T5 Room 109
Office Hours:	Tuesday 10:00am – 11:00am

Approved: SAS / 1/16/26

REQUIRED TEXTBOOK AND MATERIALS

1. Modern Commercial Wiring, Author: Harvey N. Holzman
   7th Edition, ISBN-13 9781631269080

2. Flash Drive – 1 GB minimum

3. Access to computer with AutoCAD

ATTENDANCE POLICY

Attendance is expected of all students.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the Academic Calendar. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

COURSE CALENDAR

DUE DATE	ASSIGNMENTS
2/4/26	Chapter 1 Homework (Electrical Fundamentals Review)
2/18/26	Line Diagram Drawing
2/25/26	Start-Stop Pushbutton Schematic Diagram
2/25/26	Start-Stop Pushbutton Wiring Diagram
3/4/26	Chapter 2 Homework (Safety Review)
3/18/26	Power Supply Wiring Diagram use 11x17 paper size
3/18/26	MCC One-line Diagram
3/25/26	Chapter 3 Homework (Tools)
3/25/26	Chapter 4 Homework (Electrical Prints, Specifications and Codes)
3/25/26	Starter One-line Diagram
4/1/26	Conduit Schedule (11x17) draw using line and text command
4/8/26	Chapter 5 Homework (Wiring Methods)
4/8/26	Light Relay Wiring Diagram
4/15/26	PS12 & FS3 Wiring Diagram
4/15/26	Junction Box Elevation
4/22/26	Chapter 6 Homework (Conductors)
4/22/26	Motor Starter Elevation
4/29/26	Chapter 8 Homework (Overcurrent Protection)
4/29/26	Motor/PB Installation
5/6/26	LIT Inside Process Training Unit – Electric Plan (FINAL DWG) (11x17)

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Activity	Percentage
Drawings (Online Off-Campus)	50%
Quiz	10%
Homework	20%
Drawing Completions Percent Grade	5%
Final Drawing	15%
Total	**100%**

NOTE - 25 point deduction for assignments over two weeks late.

GRADE SCALE

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

LIT does not use +/- grading scales

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty.

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

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. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION