



**LAMAR INSTITUTE
OF TECHNOLOGY**

Digital Applications CETT 1415-1A1

INSTRUCTOR CONTACT INFORMATION

Instructor: Minus Hargrave
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Office Phone: 409-247-4883
Office Location: PATC Room 209
Office Hours: 4:30pm – 5:30pm W other times on office door

CREDIT

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

MODE OF INSTRUCTION

Hybrid

PREREQUISITE/CO-REQUISITE:

Prerequisite CETT 1403 & CETT 1405

COURSE DESCRIPTION

This covers digital techniques and numbering systems, digital logic circuits, digital integrated circuits, decoders, encoders, multiplexers, demultiplexers.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to
Demonstrate a working knowledge of digital quantities with emphasis on combinational and sequential design.

Construct and troubleshoot combination and sequential circuits.

Use Boolean algebra to describe the logic of a combinational designed circuit.

Describe De Morgans Laws and apply them to a logic circuit.

REQUIRED TEXTBOOK AND MATERIALS

Digital Electronics 9th Edition by William Kleitz, Pearson/Prentice Hall ISBN# 978-0-13-2543033

ATTENDANCE POLICY

If you are not here that day then you are absent. There are no excused absences.

If you miss MORE THAN 20% of classes you will receive an F for the semester.

(Example: 30 days of class = 6 days. 7th day = F)

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Classwork 20% of total grade
- Labwork 20% of total grade
- Quizzes 25% of total grade
- Exams 35% of total grade

GRADING SCALE

90-100 A

80-89 B

70-79 C

60-69 D

below 60 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.

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

TURNED IN WORK RULES

1. All work will be folded lengthwise with content (sheet # 1) on inside.
2. **Name, course and section number, and date** will go on outside. **DO NOT WRITE NAME ON THE INSIDE.**
3. All assignments will be stapled **separately** and turned in separately. (NOT all stapled together.)
4. Multiple choice letter answers are to go in the blank next to the question number.
5. All work will be done in **PENCIL**. **WORK DONE IN INK WILL NOT BE ACCEPTED.**
6. Name and answers must be **legible**.