

Distributed Control Systems (INTC 2359 1A4)

CREDIT

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

MODE OF INSTRUCTION

Hybrid

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

Philosophy and application of distributed control systems. Includes hardware, firmware, software, configuration, communications, and networking systems required to implement a distributed control strategy.

COURSE OBJECTIVES

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

1. Demonstrate measurement, control, data acquisition, and data analysis.
2. Outline enterprise resource planning and management.

INSTRUCTOR CONTACT INFORMATION

Instructor: Victor Vuong

Email: vuong@lit.edu

Office Location: PATC 227

Office Hours: 30 minutes before and after class. Other times available by request.

REQUIRED TEXTBOOK AND MATERIALS

1. No Textbook- Materials provided by instructor
2. Notebook
3. Pencils (NO WORK IN PEN WILL BE ACCEPTED)

ATTENDANCE POLICY

Students must be in class in order to complete lab activities for that day.

1. Missing 20% (3) or more of classes will result in an automatic F for the course.
2. Missing more than 20% of a class period will count as an absence.

Approved: 08/15/2026



**LAMAR INSTITUTE
OF TECHNOLOGY**

DROP POLICY

If you wish to drop a course, you are 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.

COURSE CALENDAR (subject to change- refer to Blackboard for official due dates)

Assignment Name	Due Date and Time	Location
Practice Syllabus Quiz Practice Assignment Introduction Discussion	Sunday, September 27	Getting Started Folder
Intro Lab	Tuesday, September 29	In Class
DCS Terminology	Sunday, October 4	Unit 1 Folder
Drawing/Labeling Lab	Tuesday, October 6	In Class
Power Consumption Calculations	Sunday, October 11	Unit 1 Folder
Instrument Loop Lab	Tuesday, October 13	In Class
Loop Tuning Lab	Tuesday, October 20	In Class
Communication & Configuration Lab	Tuesday, October 27	In Class
Troubleshooting Lab	Tuesday, November 3	In Class
Programming Lab	Tuesday, November 10	In Class

Loop Tracing	Tuesday, November 17	In Class
Communications	Tuesday, November 24	In Class
Final	Tuesday, December 2	In Class

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

EXAMS*- 30%

Labs (Daily & Lab Exams)- 50%

Quizzes/Assignments- 20%

GRADE SCALE

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

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

1. ALL work should be completed in PENCIL! Work submitted in pen will receive a ZERO.
2. No food, drinks, or use of tobacco products in class.
3. No foul or harsh language will be tolerated
4. Turn off all Cell Phones during lectures, unless otherwise instructed by me
5. Clean up work station after you complete your lab assignments. Materials left at work station will result in 10 points deducted from that lab assignment.
6. Take care of tools and equipment used during class.
7. Headphones may be worn only upon Instructor approval.
8. Do not bring children to class.
9. 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.
10. Students must have access to, and knowledge of basic computer functions (including Blackboard)
11. Students should check Blackboard daily.
12. Internet Usage
 1. Classroom computers have access to the internet.
 2. Student usage of the internet will be monitored.
 3. Proper usage of the internet will be allowed for classroom research, classwork, tests, and assignments as directed.
 4. Any unauthorized usage of the Internet will not be tolerated.
 5. Improper usage of the Internet, such as profanity, nudity, gambling, etc. will result in disciplinary action.
13. **There will be NO make-up Exams.** If you miss an Exam for any reason, you automatically forfeit your possible exemption from the Final.

14. There will be NO make-up Labs.

15. There will be a 20 point penalty for each day deducted from late work (daily assignments only).