

Telecommunications Systems Installer
CSIR 1303



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

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

MODE OF INSTRUCTION

Face to face hybrid

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

This course reviews fundamentals of telecommunications media, including terminology, rules and regulations, safety procedures, industry standards and protocols, installation, connectorization, maintenance, and troubleshooting. General principles of customer service within a technical environment are also studied. The competencies acquired are summarized in a comprehensive project covering network, telephone and coaxial wiring, fiber optics cables, satellite television systems, structural wiring, and "smart house" concepts.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to
Read and interpret blueprints to determine wiring requirements; identify telecommunications system components; identify and describe industry standards and protocols; describe safety procedures; select proper tools; connectorize telecommunications media; install, maintain, and troubleshoot telecommunications media; discuss internal/external customer relationships; communicate technical information to customers in a clear, precise and logical manner; update customers on work progress to maintain customer satisfaction and public relations.

INSTRUCTOR CONTACT INFORMATION

Instructor: Tim Storbeck

Email: tjstorbeck@lit.edu

Office Phone: 409-247-5236

Office Location: T4 Rm 109D

Office Hours: As posted outside my door or on Starfish

REQUIRED TEXTBOOK AND MATERIALS

CABLING The complete guide to Copper and Fiber-Optic Networking
ISBN 978-1-118-80732-3

How to buy your Course Materials

- 1. Step 1: Sign into Blackboard and click on this course.**
- 2. Step 2: Click on the Cengage link in the Introduction section**
- 3. Step 3: Create or sign into your Cengage account to access or purchase the materials for this course.**

NOTE: If you are taking additional courses that use Cengage materials, you can save by purchasing a Cengage Unlimited plan, which gives you access to all Cengage eTextbooks and online homework platforms for one price. Visit cengage.com/unlimited or your campus bookstore to learn more.

ATTENDANCE POLICY

Attendance is mandatory on lecture day.

Attendance will be 10% of the grade for class.

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.

Last Day to Drop with Refund 02/04/2026

Last Day to Pay Tuition to Avoid Drop 02/16/2026

Last Day to Drop without Academic Penalty 02/20/2026

Last Day to Drop with Academic Penalty 04/13/2026

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

| WEEK | TOPIC | READINGS (Due on this Date) | ASSIGNMENTS (Due on this Date) |
|---------------------|---------------------|--------------------------------|-----------------------------------|
| Week 1 1/20-1/25 | Course Introduction | Syllabus | Book at a glance 1/26/2026 |

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|----------------------|--|----------------------------------|--|
| Week 2 2/1-3/8 | Part I LAN Network and Cabling Systems | Ch 1,2, &3 | Learning Standards 2/2/2026 |
| Week 3 /8-9/15 | Choosing the right cable | Ch 4 & 5 | Labs Terminating cables 2/9/2026 |
| Week 4 2/8-2/15 | Tools of the Trade | Ch 6,7, &8 | Labs working with the tools 2/16/2026 |
| Week 5 2/15-2/22 | Copper or Fiber | Ch 7 & 8 | Labs Testing speed 2/23/2026 |
| Week 6 2/23-3/16 | Termination, Wall Plates and connectors | Ch 9 & 10 | Labs installing plates and Connectors 3/2/2026 |
| Week 7 3/1-3/8 | Network Equipment | Ch 11 | Labs installing racks and wire trays 3/9/2026 |
| Week 8 3/15-3/22 | Wireless Networks | Ch12 | Labs building a mesh wireless network 3/28/2026 |
| Week 9 3/23-3/29 | Creating a request for proposal & Work experience from the field | Ch 13, 16, & 17 | Labs Filling out paperwork correctly 3/30/2026 |
| Week 10 3/29-4/5 | History of Fiber Optics | Ch 18 & 19 | Working w/ laser and LED 4/6/2026 |
| Week 11 4/4-4/12 | Principles of light | Ch 20 | Working w/ Laser and LED 4/13/2026 |
| Week 12 4/12-4/19 | Types of Fiber cable | Ch 21,22, &23 | Labs research availability of Fiber cable 4/20/2026 |
| Week 13 4/19-4/25 | Connectors and splicing Fiber | Ch 24 & 25 | Labs Splicing and terminating 4/25 |
| Week 14 4/26-5/1 | Fiber Multiplexer and Equipment | Ch 28, 29, & 30 | Fiber optic detectors and Receivers. 5/3 |
| Week 15 5/3-5/8 | Review | Finish any labs not finished | Last chance for Hands on Lab make up. 5/9 |
| 16 5/10-5-12 | Final | Last chance to turn in late work | Final 5/12 |

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- End of Chapter quiz-test 40%
- Attendance 10%
- Labs 30%
- Final 20%

GRADING 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

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the [LIT Online Experience](#) page. 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