

Home Technology Integration (CPMT 2302 6A1)



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE: None

COURSE DESCRIPTION

A study of integration and maintenance of various home technology subsystems. Includes home automation, security and surveillance, home networks, video and audio networks, and structured wiring.

COURSE OBJECTIVES

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

1. Design various subsystems
1. Install various subsystems
2. Integrate various subsystems
3. Maintain various subsystems to create an automated home control system

INSTRUCTOR CONTACT INFORMATION

Instructor: Tim Storbeck

Email: tjstorbeck@lit.edu

Office Phone: 409-247-2563

Office Location: T4 Room 109

Office Hours: Posted on office door, and in Starfish with appointment by phone.

REQUIRED TEXTBOOK AND MATERIALS

1. *CEA-CompTIA DHTI+ Digital Home Technology Integrator*, 2nd Edition by Ron Gilster & Helen Heneveld
 - a. ISBN 978-0-07-154665-2

ATTENDANCE POLICY

Approved: **Initials/date**

Attendance will be taken every class and reported in Star Fish

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

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1 8/26-9/1	Part 1 Home Tech Install	Read part one Week 1	Nothing due
Week 2 9/2-9/8	Part 2 Wire Documentation & Install Practice	Read part two 9/5 Week 2	9/5
Week 3 9/9-9/15	Lab Installing Comp, & setup cubical	Lab 1 9/12	Lab, cubical setup 9/12
Week 4 9/16-9/22	Part 3 Audio/Video System	Read part 3 Week 4	Lab, stereo and computer hook up 9/19
Week 5 9/23-9/29	Part 3 Lab Install Video Equipment	N/A	Install complete Video 9/26
Week 6 9/30-10-6	Part 3 lab Install Audio Equipment	N/A	Install and complete Audio system 10/3
Week 7 10/7- 10/11	Part 5 Security Systems Basics	Read part 5	Week 7 10/10
Week 8 10/14- 10/18	Part 5 Security Systems Lab Start install of system	N/A	Lab Security control panel 10/17
Week 9 10/21- 10/25	Lab Security System installing components of Security System	N/A	Lab Security equipment Motion detector 10/24
Week 10 10/28-11- 1	Part 6 Video Surveillance	Read part 6 video surveillance	Lab Camera setup Week 10 10/31
Week 11 11/2-11/8	Lab install video surveillance	N/A	Camera setup Week 11 11/1-
Week 12 11/9- 11/15	Part 7 Home Lighting controls	Read part 7 Lighting	Lab lighting Week 12 11/8

Week 13 11/16- 11/22	Part 8 Home controls and management	Week 13	Lab controls Week 13 11/15
Week 14 11/23- 11/29	Lab for Part 7 and 8 Install lighting controls and Managnet systems	Week 14	Labs management controls Week 14 11/22
Week 15 11/30- 12/6	Review and grade Installation of all equipment	Wek 15	Grade labs Week 15 11/29
Week 16 12/7- 12/12	Final	Week 16	Week 16 12/6 Final

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Attendance	10%
Labs	40%
Chapter Quiz	30%
Final	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 \(lit.edu\)](https://www.lit.edu/special-populations).

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

Certification Requirement

Cyber Security majors are required to earn certification in one of the following areas prior to graduation.

- A+ Certification
- Network+ Certification
- Security+ Certification
- Linux+ Certification
- Cisco Certified Network Associate (CCNA)