Safety, Health, Environment (PTAC 1408 2B1)

CREDIT
4 Semester Credit Hours (4 hours lecture, 0 hours lab)

MODE OF INSTRUCTION
Online

PREREQUISITE/CO-REQUISITE:
None

COURSE DESCRIPTION
An overview of safety, health, and environmental issues in the performance of all job tasks in the process industry. This course is time-bound, structured, and completed totally online.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to
Describe the components of a typical plant safety and environmental program and the role of a process technician in relation to safety, health, and the environment;
2.	Identify the functionality of safety, health and environmental equipment used.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Tiffany Williams-Parker
Email:	tlparker@lit.edu
Office Phone:	409-257-0069
Office Location:	TA5-108C
Office Hours:	Office Hours

REQUIRED TEXTBOOK AND MATERIALS
1. Safety, Health, and Environment, Pearson
    a) ISBN number is 10: 0-13-557249-5

ATTENDANCE POLICY
Online class, with Blackboard course login required three times per week minimum

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.

Approved: Initials/date

COURSE CALENDAR

Due Dates	Topic	Reference
1/31/2025	Course introductions and policies	
	Intro to Safety, Health, and Environment	Ch 1
2/9/2025	Types of Hazards and their Effects	Ch 2
2/9/2025	Recognizing Chemical Hazards	Ch 3
2/9/2025	Recognizing Biological Hazards	Ch 4
	Equipment and Energy Hazards	Ch 5
	TEST 1	
2/23/2025	Fire and Explosion Hazards	Ch 6
2/23/2025	Pressure, Temperature and Radiation Hazards	Ch 7
2/23/2025	Hazardous Atmospheres and Respiration Hazards	Ch 8
2/23/2025	Working Area and Height Hazards	Ch 9
	Hearing and Noise Hazards	Ch 10
	TEST 2	
3/16/2025	Construction, Maintenance, and Tool Hazards	Ch 11
3/16/2025	Vehicle and Transportation Hazards	Ch 12
3/16/2025	Natural Disasters and Inclement Weather	Ch 13
	Physical Security and Cybersecurity	Ch 14
3/16/2025	Recognizing Ergonomic Hazards	Ch 15
	Recognizing Environmental Hazards	Ch 16
	TEST 3	
4/6/2025	Introduction to Hazard Control	
	Engineering Controls: Alarms and Indicators	Ch 17
		Ch 18
4/6/2025	Engineering Controls: Containment and Upset	Ch 19
	Administrative Controls	Ch 20
4/6/2025	Permitting Systems	Ch 21
	TEST 4	

5/6/2025	PPE and First Aid	Ch 22
5/6/2025	Monitoring Equipment	Ch 23
	Fire, Rescue, and Emergency Response	Ch 24
	TEST 5	
5/10/2025	**FINALS WEEK**	

COURSE EVALUATION
Final grades will be calculated according to the following criteria:
- Assignments   20%
- Discussions/Lab   10%
- Tests   40%
- Final Exam   30%

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
Schedule subject to change per Instructor and/or LIT campus unforeseen issues.