

Safety, Health, and Environmental I (PTAC 1408 3A4 12 weeks)

CREDIT

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

MODE OF INSTRUCTION

Face to Face

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.

COURSE OBJECTIVES

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

1. 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: Dr. V. Worry
Email: vaworry@lit.edu
Office Phone: 409-247-5306
Office Location: PATC 210
Office Hours: MW 3:00 – 4:00 pm

REQUIRED TEXTBOOK AND MATERIALS

Safety, Health, and Environment, CAPT

- a. ISBN number is 013700401X

ATTENDANCE POLICY

1. Missing more than 20% of classes will result in an automatic “F” for the course.
2. Absences are counted for unexcused, excused and coming to class late.
3. Missing more than 20% of a class period will count as an absence.
4. Being tardy 2 times equals 1 absence.

Approved: **Initials/date**



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	Introduction to class	Ch 1	
	Hazards and effects	Ch 2	
	Chemical hazards	Ch 3	
	Biological hazards	Ch 4	
Week 2	Fire & Explosion Hazards	Ch 6	Test 1
	Pressure, Temperature and Radiation Hazards,	Ch 7	
Week 3	Hazardous Atmospheres & Respirator Hazards	Ch 8	
	Working Area and Height Hazards	Ch 9	
Week 4	Hearing & Noise Hazards	Ch 10	Test 2
Week 5	Const, Maintenance, Tool, and Vehicle Hazards	Ch 11 Ch 12	
	Natural Disasters, Weather, Physical, and Cybersecurity	Ch 13 Ch 14	
Week 6	Recognizing Ergonomic Hazards Recognizing Environmental Hazards	Ch 15 Ch 16	Test 3
Week 7	Introduction to Hazard Control Engineering Controls: Alarms and Indicators	Ch 17 Ch 18	
	Engineering Controls: Containment and Upset	Ch 19	
Week 8	Administrative Controls: Alarms & Indicator Systems	Ch 20	
	Permitting Systems	Ch 21	Test 4

Week 9	PPE & First Aid	Ch 22	
Week 10	Monitoring Equipment Fire, Rescue, and Emergency Response	Ch 23 Ch 24	Test 5
Week 11	Student Presentations		Test 6
Week 12	Student Presentations		FINAL

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

HW/Presentation 10%

Tests 50%

Final Exam 40%

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.

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