

# Safety, Health, and Environmental I (PTAC 1408 3F1)

## 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:	L.G. Williams
Email:	lwilliams4@lit.edu
Office Phone:	409-247-5355
Office Location:	T5 building room 108D
Office Hours:	8:00 – 9:00 am Monday and Wednesday

## 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.

Approved: **Initials/date**



**LAMAR INSTITUTE  
OF TECHNOLOGY**

3. Missing more than 20% of a class period will count as an absence.
4. Being tardy 2 times equals 1 absence.

### **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**

<b>DATE</b>	<b>TOPIC</b>	<b>READINGS (Due on this Date)</b>	<b>ASSIGNMENTS (Due on this Date)</b>
Week 1	Introduction to class	Ch 1	
Week 2	Hazards and effects	Ch 2	
Week 3	Chemical hazards	Ch 3	
Week 4	Biological hazards	Ch 4	Test 1
Week 5	Equipment/Energy Hazards, Fire and Explosions	Ch 5 Ch 6	
Week 6	Pressure, Temperature and Radiation Hazards, Hazard Atmospheres and Radiation	Ch 7 Ch 8	Test 2
Week 7	Working Area, Heights, and Hearing Hazards	Ch 9 Ch 10	
Week 8	Const, Maintenance, Tool, and Vehicle Hazards	Ch 11 Ch 12	Test 3
Week 9	Natural Disasters, Weather, Physical, and Cybersecurity	Ch 13 Ch 14	
Week 10	Recognizing Ergonomic Hazards  Recognizing Environmental Hazards	Ch 15  Ch 16	
Week 11	Introduction to Hazard Control  Engineering Controls: Alarms and Indicators	Ch 17  Ch 18	Test 4

Week 12	Engineering Controls: Containment and Upset Administrative Controls	Ch 19 Ch 20	
Week 13	Permitting Systems PPE and First Aid	Ch 21 Ch 22	Test 5
Week 14	Monitoring Equipment Fire, Rescue, and Emergency Response	Ch 23 Ch 24	
Week 15	Student Presentations		Test 6
Week 16	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](mailto: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](http://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**

Schedule subject to be altered due to unforeseen circumstances.