

## Safety, Health, Environment (PTAC 1408 2A1)

### 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](mailto: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**



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**COURSE CALENDAR**

| <b>Due Dates</b> | <b>Topic</b>                                                                        | <b>Reference</b> |
|------------------|-------------------------------------------------------------------------------------|------------------|
| 9/14             | Course introductions and policies<br>Intro to Safety, Health, and Environment       | Ch 1             |
| 9/14             | Types of Hazards and their Effects                                                  | Ch 2             |
| 9/14             | Recognizing Chemical Hazards                                                        | Ch 3             |
| 9/14             | Recognizing Biological Hazards<br>Equipment and Energy Hazards<br><b>TEST 1</b>     | Ch 4<br>Ch 5     |
| 10/5             | Fire and Explosion Hazards                                                          | Ch 6             |
| 10/5             | Pressure, Temperature and Radiation Hazards                                         | Ch 7             |
| 10/5             | Hazardous Atmospheres and Respiration Hazards                                       | Ch 8             |
| 10/5             | Working Area and Height Hazards<br>Hearing and Noise Hazards<br><b>TEST 2</b>       | Ch 9<br>Ch 10    |
| 10/26            | Construction, Maintenance, and Tool Hazards                                         | Ch 11            |
| 10/26            | Vehicle and Transportation Hazards                                                  | Ch 12            |
| 10/26            | Natural Disasters and Inclement Weather<br>Physical Security and Cybersecurity      | Ch 13<br>Ch 14   |
| 10/26            | Recognizing Ergonomic Hazards<br>Recognizing Environmental Hazards<br><b>TEST 3</b> | Ch 15<br>Ch 16   |
| 11/16            | Introduction to Hazard Control<br>Engineering Controls: Alarms and Indicators       | Ch 17<br>Ch 18   |
| 11/16            | Engineering Controls: Containment and Upset<br>Administrative Controls              | Ch 19<br>Ch 20   |
| 11/16            | Permitting Systems<br><b>TEST 4</b>                                                 | Ch 21            |

|      |                                                                               |                |
|------|-------------------------------------------------------------------------------|----------------|
|      |                                                                               |                |
| 12/4 | PPE and First Aid                                                             | Ch 22          |
| 12/4 | Monitoring Equipment<br>Fire, Rescue, and Emergency Response<br><b>TEST 5</b> | Ch 23<br>Ch 24 |
| 12/5 | <b>FINALS WEEK</b>                                                            |                |

### **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](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.

### **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 or LIT campus issues.