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
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

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