

# Process Equipment (PTAC 1410 3A1/5A1/5B1)

CRN 11534, 11537, 11535

## CREDIT

4 Semester Credit Hours (3 hours lecture, 3 hours lab)

## MODE OF INSTRUCTION

Face to Face

## PREREQUISITE/CO-REQUISITE:

N/A

## COURSE DESCRIPTION

Instructions for the use of common processing equipment.

## COURSE OBJECTIVES

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

- 1. Define and use terminology.
- 2. Identify and describe components, basic functions, and scientific principles associated with process equipment.

## INSTRUCTOR CONTACT INFORMATION

Instructor: Mark Ellison

Email: mellison@lit.edu

Office Phone: 409-247-5129

Office Location: ExxonMobil PATC building, room 211

Office Hours: Lecture Monday/Wednesday 2:30 PM to 3:45 PM.  
Lab Monday/Wednesday 3:46 PM to 6:16 PM.

## REQUIRED TEXTBOOK AND MATERIALS

TEXT BOOK, Process Technology Equipment (Second Edition) – ISBN-13 number: 978-0-13-489126-2

Lab personal protective equipment, long pants, closed-toe shoes (no sandals, crocs, or flipflops in the lab), shirt with sleeves (no tank tops or mussel shirts)

## ATTENDANCE POLICY

Missing more than 20% of classes will result in an automatic “F” for the course.

Absences are counted for unexcused and excused.



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Approved: **Initials/date**

Missing more than 20% of a class period will count as an absence.

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**

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
1/21	Class orientation		
1/28	Chapters 1 and 2		
2/2	Chapters 3 and 4		
2/4	Testing		Test 1 over Ch 1 - 4
2/9	Chapter 5		
2/11	Chapters 6 and 7		Homework 1 due
2/16	Chapters 8 and 9		
2/18	Testing		Test 2 over Ch 5 - 9
2/23	Chapters 10 and 11		
2/25	Chapter 12		Homework 2 due
3/2	Chapter 13 and 14		
3/4	Testing		Test 3 over Ch 10 - 13
3/9	Spring Break		
3/11	Spring Break		
3/16	Chapter 15 and 16		
3/18	Testing		Test 4 over Ch 14 - 16 Homework 3 due
3/23	Chapter 17		
3/25	Chapter 18		
3/30	Chapter 19		
4/1	Chapter 20		
4/6	Testing		Test 5 over Ch 17 - 20
4/8	Semester/Finals reviews		Lab completions
4/13	Semester/Finals reviews		Lab completions
4/15	Semester/Finals reviews		Lab completions
4/20	Final exam		Final Exams
4/22	Final exam		Final Exams
4/27	Summer Advising		

4/29	Summer Advising		
5/4	Summer Advising		

## COURSE EVALUATION

Final grades will be calculated according to the following criteria:

1. Unit tests 30%
2. Final exam 30%
3. Homework/quizzes 20%
4. Participation/lab 20%

## 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 found 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 that 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 about 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 through the Starfish home page. You can also log in 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**

**The course calendar can change due to unpredictable events.**

Lab safety is a priority; if you have an accident or injury, you are to report it to the Instructor immediately. Late work will be reduced by 10 points per calendar day late.