

Process Technology III, Plant Operations (PTAC 2438 3A1/5A1)

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

MATH 1332, PTAC 1302, PTAC 1410, PTAC 2420

COURSE DESCRIPTION

This course emphasizes activities associated with the hands-on operations of process equipment.

COURSE OBJECTIVES

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

1. Operate various process systems;
2. Work in self-directed teams;
3. Write and follow safety and operational procedures. Collect and use data for determination of process specifications

INSTRUCTOR CONTACT INFORMATION

Instructor: Brian Parrack

Email: bsparrack@lit.edu

Office Phone: 409-247-5129

Office Location: ExxonMobil PATC building room 211

Office Hours: Monday/Wednesday 3PM to 5PM. Tuesday 12PM to 12:30PM

REQUIRED TEXTBOOK AND MATERIALS

1. *Process Technology Plant Operations*, 2nd Edition; Speegle.
ISBN: 1133950159
2. Equipment (FRC, hardhat, safety glasses available in the labs by LIT)
 - a. fire retardant clothing
 - b. hardhat
 - c. safety glasses

Approved: **Initials/date**



- d. ear plugs
- e. gloves
- f. shoes (no open toes/sandals)

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.

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)
8/27	PTAC 2438 Orientation		
8/29	Chapters 1-6		
9/3	Chapters 7-12		Test 1 due Ch 1-6
9/5	Chapters 13-17		
9/10	Chapters 18-22		Test 2 due Ch 7-12
9/12	Glycol unit training		
9/17	Glycol unit training		Test 3 due Ch 13-17
9/24	Glycol unit training		
9/26	Glycol unit training		Test 4 due Ch 18-22
10/1	Glycol unit training		Split labs
10/3	Glycol unit training		Split labs
10/8	Glycol unit training		
10/10	Glycol unit training		
10/15	Glycol unit training		
10/17	Glycol unit training		
10/22	Glycol unit training		Lab 1 due/unit drawing
10/24	Glycol unit training		Lab 1 due/unit drawing
10/29	Glycol unit training		
10/31	Glycol unit training		
11/5	Glycol unit training		Homework due
11/7	Glycol unit training		Homework due
11/12	Glycol unit training		

11/14	Glycol unit training		
11/19	Glycol unit training		Lab 2 due/unit walkthrough
11/21	Glycol unit training		Lab 2 due/unit walkthrough
11/26	Glycol unit training		Lab 2 due/unit walkthrough
12/3	Glycol unit training		Lab 2 due/unit walkthrough
12/5	Spring advising and enrollment		
12/10	Spring advising and enrollment		

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Homework	10%
Tests	40%
Lab	50%

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.

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

Course calendar can change due to unpredictable events.

Lab safety is a priority. Any accidents or incidents must be reported to the Instructor immediately.