

Process Technology III PTAC 2438 3C1 & 5C1

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

PTAC 1302, PTAC 1332, PTAC 1410, MATH 1332 or 1314.

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 procedure Collect and use data for determination of process specifications

INSTRUCTOR CONTACT INFORMATION

Instructor: LG Williams

Email: lwilliams4@lit.edu

Office Phone: 409-247-5355

Office Location: Technology 5 Building, Office 108D

Office Hours: Tuesday and Thursday 7:30 - 9:30 AM

REQUIRED TEXTBOOK AND MATERIALS

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



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- 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 3 times equals 1 absence.
5. You are required to log on weekly to Blackboard three times per week and review the week's course material. Additionally, you are required to check your LIT emails weekly.
6. A quiz will be given at the beginning of every class. This will be used to take attendance, as well as a daily grade. If you miss a quiz, it cannot be made up. If you are late, you miss the questions. If you miss the quiz because you are tardy, it is your responsibility to let me know you are there. If not, you will be counted absent.
7. A student is absent if they are not physically in the classroom. An excused absence simply means that the student can make up any missed work.
8. Class attendance and participation is an individual student responsibility. Students taking traditional face-to-face courses are expected to attend class and complete all assignments by stated due dates. Excessive absences and tardies will be dealt with on a case-by-case basis.

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 *(Subject to Change)*

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
08/26/24	Orientation Discuss Basic Column Flows	Class Syllabus	Syllabus Acknowledgement Syllabus Test Fall Intro 2024
08/28/24	<i>The Process Technician Today</i> <i>Jobs in the Process Industry</i> Centrifugal Pump Review	Chapters 1 & 2	

09/02/24	Labor Day Holiday		
09/04/24	John's 12 Hour Shift Operator Safety	Chapter 3 & 4	
09/09/24	Environmental Compliance Emergency Compliance Centrifugal Pump Review	Chapters 5 & 6	Assignment 1
09/11/24			Online Test 1 Chapters 1-6 Centrifugal Pump Test
09/16/24	Process Physics Quality for Operators Process Economics	Chapters 7, 8 & 9	
09/18/24	Communication for Operators Instrumentation for Operators Routine Operator Duties	Chapters 10, 11 & 12	
09/23/24	Emerson Delta V DCS Training		Online Test 2 Chapters 7-12
09/25/24	Lockout / Tagout Training	76 Step Procedure	
09/30/24	Lockout / Tagout Training	76 Step Procedure	Lockout Tagout Test
10/02/26	Process Samples & Analytical Operator Maintenance Duties Material Handling I	Chapters 13, 14 & 15	
10/07/24	Material Handling II	Chapter 16	Online Test 3 Chapters 13-15 Assignment 2
10/09/24	Material Handling III Process Unit Shutdown Unit Shutdown Turnaround	Chapters 17, 18 & 19	
10/14/24	Glycol Unit Training		Online Test 4 Chapters 16-19
10/16/24	Glycol Unit Training		
10/21/24	Glycol Unit Training		
10/23/24	Glycol Unit Training		
10/28/24	Glycol Unit Training		
10/30/24	Glycol Unit Training		
11/04/24	Glycol Unit Training		

11/06/24	Glycol Unit Training		
11/11/24	Glycol Unit Training		Assignment 3
11/13/24	Glycol Unit Training		
11/18/24	Glycol Unit Training		
11/20/24	Glycol Unit Training		
11/25/24	Glycol Unit Training		
11/27/24	Glycol Unit Training		
11/28/24	Thanksgiving Holiday		
12/02/24	Final Exam		
12/04/24	Final Exam		

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-learningminimumcomputer-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

Weekly schedule could change due to unforeseen circumstances (weather etc.)

ADDITIONAL COURSE POLICIES/INFORMATION FOR MR. WILLIAMS:

STUDENT BEHAVIOR EXPECTATIONS

- Students are expected to be in the class room and ready for instruction at the beginning of the face-to-face class period. Habitual tardiness will be dealt with on a one-to-one basis and may lead to being marked absent.
- Keep in mind that each student comes from a different background and brings with her/him a different set of beliefs and values.
- Disrespect for others will not be tolerated, online or face-to-face.

MY RESPONSE TIME

- I only return calls that leave a voicemail. I prefer emails though.
- The best way to reach me is through my LIT email, lwilliams4@lit.edu.
- I usually respond to emails within 24 hours unless the email is received after noon on Fridays, weekends, campus holidays or days when I am required to travel.

MY LIT EMAIL

- Not communicating with me because your LIT email is not working is not a valid reason for no response. LIT email is how we communicate with you. Get it working so you don't miss any important information (contact the help desk for assistance).
- I will email an announcement to your LIT email the first day of class. Please respond to it so we both know your LIT email is working.

MY BLACKBOARD MESSAGES

- Check the Send-to-Email box above Blackboard Messages text box if you want a faster response.
- If you use Blackboard Messages to contact me, and I don't respond within 24 hours, please send the same email message to my LIT email, lwilliams4@lit.edu

MY BLACKBOARD ANNOUNCEMENTS

- Announcements in Blackboard are posted to the Announcements web page that you see when you log into class. They are important, so be sure to read them.
- "I did not see it" is not an acceptable reason for missing an announcement!

MY TECHNOLOGY REQUIREMENTS

- Use Chrome or Firefox as your browser. Edge and Safari do not work well with Blackboard.
- If you do class assignments on a cell phone, a tablet, or a netbook, make sure you are seeing all assignments as they are presented on a desktop computer.

- Papers (assignments) are to be submitted using Microsoft Word or preferably, as a PDF. If one of these methods is not used, formatting problems are the responsibility of the student.
- Not having the correct technology, device or internet is not a valid excuse for not doing assignments or tests.
- Problems with Blackboard are to be addressed by the HELP DESK. I can only help you with content and understanding the material.

MY DUE DATE POLICIES

- All discussions, assignments, and tests have due dates. It is your responsibility to know the due dates and get material submitted on time.
- Late work is frowned on. Students may submit late work, but 10 points will be taken off for each class DAY that it is late.
- For students who were absent, the student must request the work and have until the next class period to turn it in. After the next class period, the work will be considered late and will have 10 points deducted for each class DAY that it is late.
- If a face-to-face test is missed due to an emergency situation, the student will have one week to make it up; otherwise a grade of 0 will be assigned. Absent students will receive the same test as those who took it on test day for the first missed test only. Missing more than 1 test will result in future test(s) being all free response answers.
- For online classes that are required to write papers; the papers must be submitted to SafeAssign to check for plagiarism (its automatic). In most cases, the student has 3 submissions to correct any problems. However, all submissions MUST be made by the due date.

MY GRADING POLICIES

- For face-to-face classes who have a quiz at the beginning of class; these quizzes cannot be made up. However, 3 lowest assignment grades will be dropped at the end of the semester. Fully online classes do not take these quizzes.
- I grade student work Monday through Friday during my office hours.
- All grades are recorded in Gradebook on Blackboard.
- It is the student's responsibility to make sure their grades on their work match their grades in Blackboard Gradebook. If there is a discrepancy, please contact me and be prepared to show the graded work if requested.
- Grading rubrics are available on writing assignments.
- If Blackboard locks up or submits something early, I will only restart a test one time. The test must be started completely over. If it messes up again, the student will be required to come to my office and take a face-to-face test

MY ACADEMIC HONESTY AND PLAGIARISM POLICIES

- Academic honest is expected on all assignments. See LIT handbook for more information about academic honesty and the penalty for breaking academic honesty.
- Plagiarism is submitting someone else’s work, either published or not, as your own, and is not allowed.
- Plagiarism includes everything from using AI to write your writing assignments, patchworking sentences together from the internet, to using another class mates work. Because you are only required to write 2 pages, putting cited quotes is not allowed either. Please read the specific assignment for rules.
- All writing assignments are submitted to a plagiarism checker in Blackboard to be reviewed for plagiarism and AI content.
- Most writing assignments may be redone 2 times to reduce what is identified in SafeAssign. If the bibliography is cited, that will not result in points being deducted. Please read each assignment instructions for the particular policy on plagiarism for that specific assignment.
- Students who plagiarize or use AI may receive a 0 on the assignment or may receive an F for the entire course.

If you wish to drop a course, the student is responsible for initiating and dropping the course. If you stop logging-in to the course and do not complete the course drop process, then you will receive an “F” grade for the course.

A student who wishes to drop a course is responsible for initiating and completing the drop process. A student who stops coming to class, and fails to drop the course, will earn an “F” in the course.