

Process Technology II - Systems PTAC 2420 3J1

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE

PTAC 1302 and PTAC 1410

COURSE DESCRIPTION

A study of various process systems including related scientific principles

COURSE OBJECTIVES

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

1. Describe the purpose and function of common process systems;
2. Explain and demonstrate the operation of each process system.

INSTRUCTOR CONTACT INFORMATION

Instructor: James Robinson
Email: jrobinson@lit.edu
Office Phone: 409-247-5376
Office Location: T5 108C
Office Hours: See before or after class

REQUIRED TEXTBOOK AND MATERIALS

1. *Process Technology Systems* by Michael Speegle
 - a. ISBN number: 1418039993
2. *Simtronics Students Workbook* (Kampus Korner Bookstore only)

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.

Approved: **Initials/date**



**LAMAR INSTITUTE
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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)
Week 1	Course introduction and policies. The Systems Concept.	Handouts, Ch 1.	
2	Overview of Industrial Water Treatment.	Ch 2.	
3	Fire Water, Wastewater & Storm Water Systems Potable Water, Process Water & Demineralized Water Systems.	Ch 3 and 4.	
4	Cooling Water Systems	Ch 5	
5	Plant Air, Instrument Air and Nitrogen Systems Natural Gas and Fuel Gas Systems.	Ch 6 and 7.	Test 1 Ch 2 - 5.
6	Steam Generation and Boiler Feedwater System Steam Distribution and Condensate System Electrical Power Generation and Distribution Systems.	Ch 8,9,10.	
7	Relief and Flare System Refrigeration Systems.	Ch 11 and 12.	Test 2 Ch 6 - 10.
8	Distillation Systems.	Ch 13.	
9	Combustion Systems, Extraction Systems.	Ch 14 and 15.	
10	Adsorption Systems Absorption and Stripping Systems.	Ch 16 and 17.	
11	Reactor Systems.	Ch 18.	Test 3 Ch 11 – 18.
12	Centrifuge Systems,	Ch 19 and 20.	

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 change per Instructor or LIT campus issues.