



**PTAC 1310-101CL
EQUIPMENT
SPRING 2023
MON/WED 9AM-11:20PM
ICB RM #203**

Instructor's Information: Derrick Lewis dlewis22@com.edu
ICB RM# 207- Office 12
(409) 933-8607 Office

Student hours and location:
ICB #207-12
Mon/Wed 2p-5p
Thurs 3:30p-5p

Required Textbook/Materials: Process Technology Equipment 2nd Ed (ISBN-13: 978-0-13-489126-2) (Gold Paperback ed)

Course Description:

**PTAC 1310. PROCESS TECHNOLOGY I - EQUIPMENT
(LECTURE 2, LAB 3). CREDIT 3. WECM.**

This course provides instruction in the use of common process equipment. The student will identify process equipment components; use appropriate terminology to describe components of process equipment; describe basic functions of process equipment; and relate scientific principles associated with process equipment. Prerequisites: [PTAC 1302](#) with a grade of "C" or better and TSI Math 342 or equivalent developmental course with a grade of "C" or better.

Course requirements: Individual Safety Presentations, Exams, Pop Quizzes, & Team Project

Determination of Course Grade/Detailed Grading Formula

6 Exams/100pts each, 5 Quizzes/50pts each, Safety Presentation/50pts (900 points total)

A = 90% - 100%
B = 80% - 89%
C = 70% - 79%
D = 60% - 69%
F = Below 60%

Late Work, Make-Up, and Extra-Credit Policy: No late work will be accepted after the due date has passed. There is no extra credit in this class.

If you give Instructor at least **2hrs** prior notice of non-attendance before a scheduled class in which work is due, you will have 48 business hours from the original due date to turn in your assignment/take exam. You may only take **1** exams in the Testing Center. If you **DO NOT** give at least **2hrs** notice/inform Instructor of your non-attendance, you will **NOT** be allowed to turn in missed assignment or take missed exam. **NO EXCEPTIONS. There is no extension for the Final Exam.**

Attendance Policy: Due to the “hands-on” nature of this class, it is advisable to attend every scheduled class session. If you should miss, please note that after **6 absences** the instructor may drop you from the course.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. (Faculty may add additional statement requiring monitoring and communication expectations via Blackboard or other LMS)

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Define and use terminology	*Critical thinking	Homework, exams, quizzes
2. Describe the roles, responsibilities, safety, and quality concepts associated with the work environment of a process technician.	*Critical thinking *Communication-writing *Personal responsibility	Safety meeting presentation, homework, quizzes, exams, class participation

Academic Dishonesty: Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for appropriate discipline action.

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact (Derrick Lewis-Dept Chair) at [409-933-8306 or dlewis22@com.edu].

Course outline: **Schedule is subject to change at the discretion of the instructor based on instruction and/or course needs. **

Week#	Day/Date	Topic	Reading Assignments & Homework Due Dates
1	Tue 1/17	Introduction, Safety Presentations, Team Assignment,	Read Chp 1
	Thurs 1/19	Chapter 1 Intro to Process Equipment	Read Chp 2
2	Tue 1/24	Chapter 2 Process Drawings and Industry Standards	Read Chp 3
	Thurs 1/26	Chapter 3 Tools	Read Chp 4
3	Tue 1/31	Chapter 4 Piping, Gaskets, Tubing, Hoses, and Fittings	Read Chp 5 Census Day 2/1
	Thurs 2/2	Chapter 5 Valves	
4	Tue 2/7	Review	
	Thurs 2/9	Exam 1	Read Chp 6
5	Tue 2/14	Chapter 6 Pumps	Read Chp 7
	Thurs 2/16	Chapter 7 Compressors	Read Chp 8
6	Tue 2/21	Chapter 8 Turbines	
	Thurs 2/23	Review	
7	Tue 2/28	Exam 2	Read Chp 9
	Thurs 3/2	Chapter 9 Motors and Engines	Read Chp 10
8	Tue 3/7	Chapter 10 Power Transmission and Lubrication	
	Thurs 3/9	Exam 3	
	3/14	SPRING BREAK	
	3/16	SPRING BREAK	Read Chp 11
9	Tue 3/21	Chapter 11 Heat Exchangers	Read Chp 12
	Thurs 3/23	Chapter 12 Cooling Towers	Read Chp 13
10	Tue 3/28	Chapter 13 Furnaces	Read Chp 14
	Thurs 3/30	Chapter 14 Boilers	

11	Tues 4/4	Review	
	Thurs 4/6	Exam 4	Read Chp 15
12	Tues 4/11	Chapter 15 Vessels	Read Chp 16
	Thurs 4/13	Chapter 16 Reactors	Read Chp 17
13	Tues 4/18	Chapter 17 Filters and Dryers	
	Thurs 4/20	Review	
14	Tues 4/25	Exam 5	Read Chp 18 "W" Day 4/24
	Thurs 4/27	Chapter 18 Solids Handling Equipment	Read Chp 19
15	Tues 5/2	Chapter 19 Environmental Control Equipment	Read Chp 20
	Thurs 5/4	Chapter 20 Auxiliary Equipment	
16	Tues 5/9	Exam 6	
	Thurs 5/11	Final Grades	

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook. <https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a “W” grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is March 1st. The last date to withdraw from the 16-week session is April 24th. The last date to withdraw for the 2nd 8-week session is May 3rd.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the F_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program, you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.