

# PTAC-1302-102CL INTRO TO PROCESS TECHNOLOGY FALL 2023 TUES 1:30PM-4:20PM ICB RM #203

Instructor Information: Philip Marks pmarks2@com.edu

**Student hours and location:** 

ICB#23, Room 203

Required Textbook/Materials: Introduction to Process Technology (ISBN-13:978-0-13-480824-6

## **Course Description:**

### PTAC 1302. INTRODUCTION TO PROCESS TECHNOLOGY

This is the introduction to chemical and refinery plant operations. Topics include process technician duties, responsibilities and expectations; plant organizations; plant process and utility systems; and the physical and mental requirements of the process technician. The student will relate an overview of a typical process plant; identify process equipment; state the purpose of equipment; describe safety, health, and environmental components; and describe the roles, responsibilities, and work environment. Prerequisite: TSI Reading 351 or equivalent developmental course with a grade of "C" or better

**Course requirements:** Exams and Class participation

**Determination of Course Grade/Detailed Grading Formula** 

5 Exams/100pts

A = 90% - 100%

B = 80% - 89%

C = 70 % - 79%

D = 60% - 69%

**F= Below 60%** 

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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 are only allowed to take 2 make-up 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 will 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	, exams, class participation
2. Describe the roles, responsibilities, safety, and quality concepts associated with the work environment of a process technician.	*Critical thinking *Communication-writing *Personal responsibility	Participation in class room topics and safety meeting demonstration.

**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 the 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 <a href="mailto:dlewis22@com.edu">dlewis22@com.edu</a>].

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

Week#	Day/Date	Торіс	Reading Assignments & Homework Due Dates

1	8/29		Read Chapters 1-2
2	9/5	Introduction, Syllabus, Chapter 1- PTEC Overview Chapter 2-Oil & Gas Industry	Read Chapters 3, 4, & 6
3	9/12	Chapter 3-Chemical Industry Chapter 4-PowerGeneration Industry Chapter 6-Water/Wastewater Industries	
4	9/19	Exam 1	Read Chapters 8 & 13
5	9/26	Chapter 8-Working as Teams Chapter 13-Process Drawings Classroom participation in safety topics	Read Chapters 25 & 26
6	10/3	Chapter 25-Process Service Utilities Chapter 26-Process Service Auxiliaries	
7	10/10	Exam 2	Read Chapters 14 & 15
8	10/17	Chapter 14-Piping and Valves Chapter 15-Vessels	Read Chapters 24 & 27
9	10/24	Chapter 24-Distillation Chapter 27-Instrumentation	
10	10/31	Exam 3	Read Chapters 16 & 17
11	11/7	Chapter 16-Pumps Chapter 17-Compressors	Read Chapters 18 & 19
12	11/14	Chapter 18-Turbines Chapter 19-Electricity and Motors	
13	11/21	Exam 4	Read Chapters 20 & 21
14	11/28	Chapter 20-Heat Exchangers Chapter 21-Cooling Towers	Read Chapters 22 & 23
15	12/5	Chapter 22-Furnaces Chapter 23-Boilers	

16	12/12	Exam 5	

# 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. <a href="https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf">https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf</a>. 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. <a href="https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf">https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf</a>

Academic Success & Support Services: College of the Mainland is committed to providing students with 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 1<sup>st</sup> 8-week session is October 11<sup>st</sup>. The last date to withdraw from the 16-week session is November 28th. The last date to withdraw for the 2<sup>nd</sup> 8-week session is December 7th.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN 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 FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN 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 <a href="https://www.com.edu/community-resource-center/">https://www.com.edu/community-resource-center/</a>. 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 <a href="maintenance-deanoft-to-center/">deanoft-to-center/</a>. 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 <a href="maintenance-deanoft-to-center/">deanoft-to-center/</a>.