



**PTAC-1354-223CL  
INDUSTRIAL PROCESSES  
SPRING 2021  
TUES/THUR 6:00PM-8:50PM  
TVB RM #1555**

**Instructor Information: Steve Wethington**

[Swethington@com.edu](mailto:Swethington@com.edu)

(409) 933-8196 (Office)

**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.

**Student hours and location:** TVB 1583

Tue/Thurs 5:00PM-6:00PM

Mon 5PM-6PM

Thus 12:30PM-1:30PM

**Required Textbook: No Textbook Required**

**Materials needed:** Pencils/pens and 11x17 copy paper

**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.

**Course Description:** The study of the basic types of industrial processes. Types of commercial processes will be explored and demonstrated. Students will demonstrate knowledge of basic types of industrial processes and their operation; explain chemical, physical and thermodynamic principles of industrial processes; perform calculations on industrial processes; and plot and graph process data.

Prerequisites: [PTAC 1302](#), [PTAC 1308](#), [PTAC 1310](#), [PTAC 1332](#), [CHEM 1405](#), and [PHYS 1410](#) or [PHYS 1401](#) with a grade of "C" or better.

**Course requirements (including description of any special projects or assignments):** This is a “hands-on” based course that teaches students the basics and understanding of tracing lines and drawing P&IDs, reading and writing operating procedures, operating systems (Tank Farm and Glass Distillation Unit), and teamwork.

**Determination of Course Grade/Detailed Grading Formula (methods of evaluation to be employed to include a variety of means to evaluate student performance):** You will be graded on:

Drawings, after reports, oral presentations, assignments, and distillation/tank farm system operation. All course work is worth 100 points each. Your grade is based on an accumulation of total points at the end of the semester. (For example- You have a total of 1000 possible points on 10 assignments. If you only earn 800 points, then 800 (points) divided by 10 (assignments) equals 80. That is your grade for the semester.

**No late work will be accepted after the due date has passed.**

**Grading Scale:**

90-100 = A

80-89 = B

70-79 = C

60-69 = D

Below 60 = F

**Attendance Policy:** This is a “hands-on” class. All lab work will be completed on campus. You must be in attendance on your scheduled days. There are no exceptions.

**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 only permitted to withdraw six times during their college career by State law. The last day to withdraw for the 1<sup>st</sup> 8 week session is March 3rd, April 26th for 16 week courses and May 5th for the 2<sup>nd</sup> 8 week session.

**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.

**Early Alert Program:** The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention is 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.

**Classroom Conduct Policy:** College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the on-line Student Handbook. <http://www.com.edu/student-services/student-handbook.php> . Students should act in a

professional manner at all times. Disruptive students will be held accountable according to college policy. Any violations of the Code of Conduct will result in a referral to the Office for student Conduct and may result in dismissal from this class.

**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.

**Plagiarism:** Plagiarism is using someone else's words or ideas and claiming them as your own. Plagiarism is a very serious offense. Plagiarism includes paraphrasing someone else's words without giving proper citation, copying directly from a website and pasting it into your paper, using someone else's words without quotation marks. Any assignment containing any plagiarized material will receive a **grade of zero** 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 [dlewis22@com.edu](mailto:dlewis22@com.edu).

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Describe processes and operations typical to the processing industry	Reading, writing, speaking, listening, critical thinking, computer literacy, and cultural competence	Teamwork, project assignments, discussion boards, After reports

**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](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](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 career. 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 Holly Bankston at 409-933-8520 or [hbankston@com.edu](mailto:hbankston@com.edu). The Office of Services for Students with Disabilities is located in the Student Success Center.

**Counseling Statement:** Any student that is needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or [hbankston@com.edu](mailto:hbankston@com.edu). Counseling services are available on campus in the student center for free and students can also email [counseling@com.edu](mailto:counseling@com.edu) to setup their appointment. Appointments are strongly encouraged; however some concerns may be addressed on a walk-in basis.

**COVID-19 Statement:** All students, faculty and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at [www.com.edu/coronavirus](http://www.com.edu/coronavirus). Students are required to watch a training [video](#), complete the [self-screening](#), and acknowledge the safety guidance at: [www.com.edu/selfscreen](http://www.com.edu/selfscreen). In addition, students, faculty, and staff must perform a [self-screening](#) prior to each campus visit. Finally, students, faculty, or staff which have had symptoms of COVID-19, received a positive test for COVID-19, or have had close contact with an individual infected with COVID-19 must complete the [self-report tool](#).

**Course outline:** PTAC-1354-223CL

Week#	Day/Date	Topic	Reading Assignments & Homework Due Dates
1		Holiday	
	TH 1/21	TEAMS MEETING FOR ENTIRE CLASS Introduction, Syllabus, Projects, Discussion posts	
2	T 1/26	Hand Tools	
	TH 1/28	Hand Tools	
3	T 2/2	Hand Tools	
	TH 2/4	Hand Tools	
4	T 2/9	Hand Tools	
	TH 2/11	Hand Tools	
5	T 2/16	Tank Farm Drawing	
	TH 2/18	Tank Farm Drawing	
6	T 2/23	Continue Drawing/Transfer Sheets	
	TH 2/25	Continue Drawing/Transfer Sheets	
7	T 3/2	Tank Farm Practice	
	TH 3/4	Tank Farm Practice	
8	T 3/9	Tank Farm Live	
	TH 3/11	Tank Farm Live	

		Spring Break	
		Spring Break	
9	T 3/23	Introduction to Distillation/Lab	
	TH 3/25	Introduction to Distillation/Lab	
10	T 3/30	Lab-Begin Drawing Glass Distillation Unit	
	TH 4/1	Lab-Begin Drawing Glass Distillation Unit	
11	T 4/6	Lab-Continue Drawing	
	TH 4/8	Lab-Continue Drawing	
12	T 4/13	Distillation Walk-Thru	
	TH 4/15	Distillation Walk-Thru	
13	T 4/20	Distillation System Operation	
	TH 4/22	Distillation System Operation	
14	T 4/27	Distillation System Operation	
	TH 4/29	Distillation System Operation	
15	T 5/4	Drawings Due/Final Exam	
	TH 5/6	Drawings Due/Final Exam	
16	T 5/11	Final Grades	
	TH 5/13	Final Grades	