



Course Number and Section (PTAC 2420-101CL)
Name of Course (Process Systems)
Course Semester (Spring 2024)
Monday/Wednesday 0900-1150
Room ICB 203

Instructor Information: Tom Forester, Instructor
tforester2@com.edu
409-933-8159 Office # 207-9 in ICB

Student hours and location: Monday/ Wednesday 4-6 pm, Tuesday/Thursday 7 – 8 AM + by appointment

Required Textbook/Materials: Systems by NAPTA Pearson *Process Systems*
NAPTA ISBN-10: 0-13-692904-4 or ISBN-13: 978-0-13-692904-8. On-line options are best for this class, some are:

<https://a.co/d/h1aVRA2> \$70

<https://www.vitalsource.com/products/process-systems-napta-v9780136929079> \$43.33

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: PTAC 2420. PROCESS TECHNOLOGY II - SYSTEMS (LECTURE 3, LAB 3). CREDIT 4. WECM.

This is the study of the interrelation of process equipment and process systems including related scientific principles. Students will arrange process equipment into basic systems; describe the purpose and function of specific process systems; explain how factors affecting process systems are controlled under normal conditions; and recognize abnormal process conditions.

Prerequisites: PTAC 1302, PTAC 1308, PTAC 1310 and PTAC 1332 with a grade of "C" or better. This is a benchmark course.

Course requirements: Excel, Internet, PowerPoint, TEAMS, and Word (all Microsoft software)

Determination of Course Grade/Detailed Grading Formula:

All grades are entered in <https://com.brightspace.com>

Project	20%	Grading Scale: A= 90-100% B= 80-90% C= 70-80% D= 60-70% F =Below 60%
Exams (5)	80%	

Late Work, Make-Up, and Extra-Credit Policy:

- **Make-up exams will not be allowed.** Subsequent no other make ups exams are allowed unless there are extreme matters that are verifiable and deemed to be an emergency by the instructor, only. At the instructor’s discretion, make up exams may be in a different format from the scheduled exam.
 - Extra Credit will be rare and at the discretion of the instructor. The expectation is that the student will attend and participate in normal class related activities and extra credit will be unnecessary.

Attendance Policy: Students are required to participate in all discussions and assignments to be successful in this course. Students will be considered having an excused absence with 24hrs written notice to Instructor (Immediate family or work-related emergencies only) In the case of a life related “sudden” emergency, written notice will be accepted before the next scheduled class

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 D2L or other LMS)

Student Learner Outcome			Maps to Core Objective	Assessed via this Assignment
1. Define and use terminology	*Critical Thinking	Exams		

2. Collect data and identify techniques for explaining Systems.	*Critical Thinking	Reading assessed via testing		
3. Utilize applicable troubleshooting methods to solve process system problems.	*Reading, Listening, and Speaking	Exams, Projects, attendance, and participation		
4. Work in self-directed teams	*Communication-participation *Personal Responsibility-attendance *Cultural Competence:	Groups, Projects, attendance, and participation		
5. Identify/describe terminology and principles associated within system and sub-systems	*Critical Thinking	Exams, Projects, attendance, and participation		

Academic Dishonesty: Students are required to do their own work. If an instance of academic dishonesty or “cheating” is observed on tests, the test will be confiscated and a zero will be the grade entered for that student. No exceptions.

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** at dlewis22@com.edu

Course outline:

Week 1	Jan 15	M holiday	W Syllabus / expectation	MLK Holiday
Week 2	Jan 22	M Section 1 systems	W Section 2 water	
Week 3	Jan 29	M Section 3 wastewater	W Exam 1 sections 1-3	
Week 4	Feb 5	M Section 4 Gasses	W Section 5 Electrical	
Week 5	Feb 12	M Section 6 storage/blending	W Section 7 steam	
Week 6	Feb 19	M Exam 2 Sect 4-7	W Section 8 combustion	
Week 7	Feb 26	M Section 9 refrigeration	W Section 10 reactor systems	
Week 8	Mar 4	M Section 11 Batch reactor	W Exam 3 sections 8-11	
Week 9	Mar 11	M	W	Spring break
Week 10	Mar 18	M Section 12 reactors	W Section 13 furnaces	
Week 11	Mar 25	M Section 14 filtration	W Section 15 adsorption	
Week 12	Apr 1	M Exam 4 Sect 12-15	W class project TBD	
Week 13	Apr 8	M Integrated systems discussion	W simulator lab	
Week 14	Apr 15	M Section 16 distill	W Section 17 extract	
Week 15	Apr 22	M Section 18 ad/stip	W Exam 5 Sect 16-18	
Week 16	Apr 29	M Capstone draw practice	W capstone drawing	
Week 17	May 6	TBD		

- **Schedule is subject to change at instructors discretion**

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://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.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.*

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 February 28. The last date to withdraw from the 16-week session is April 22. The last date to withdraw for the 2nd 8-week session is May 1. The last date to withdraw for spring mini session is May 29.

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 <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.