



**PTAC-2420-211CL (6905)  
Process Tech II - Systems  
Summer Semester 2023- 10 Weeks  
Lecture and Labs Tuesday and Thursday  
5:00 pm – 9:50 pm  
Industrial Careers, Bldg. #23, Room 206  
06/05/2023-08/11/2023**

**Elizabeth Wilson, Instructor**  
[ewilson1@com.edu](mailto:ewilson1@com.edu)  
409-933-8897 Office # 207-8 in ICB

**Student hours and location:**

My office hours are:

**Tuesdays-** 2:30 pm to 4:00

**Thursday-** 2:30 pm to 4:00

**Virtual** via Microsoft Teams **Wednesday** 3:00 pm to 4:00 pm.

Please correspond through email at [ewilson1@com.edu](mailto:ewilson1@com.edu).

**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: Team Project (Culture project), Individual Safety Presentation (extra credit), Homework (includes daily tracking of industry stocks), Quiz, and Exams. All grades are entered in <https://com.brightspace.com>

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

|                 |     |                       |
|-----------------|-----|-----------------------|
| Participation   | 15% | <b>Grading Scale:</b> |
| Project (group) | 15% | A = 90% - 100%        |
| Homework        | 20% | B = 80% – 89%         |
| Quiz            | 15% | C = 70 %– 79%         |
| Exams           | 35% | D= 60% – 69%          |
|                 |     | F= Below 60%          |

**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.
- **No Makeup quizzes.** This will be strictly enforced.
- **No makeup for Labs.** This will be strictly enforced.
- **Make up homework will not be allowed.** This will be strictly enforced.
- Extra-Credit opportunities will be given at the description of the instructor.
- **No late work is accepted.** Instructor may give student an opportunity to submit assignments due to situations outside of one’s control, however, this is based on the student needs and at the description of the instructor.

**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 Blackboard or other LMS)

| <b>Student Learner Outcome</b>   | <b>Maps to Core Objective</b>  | <b>Assessed via this Assignment</b>             |
|--|--|---|
| 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<br>*Personal Responsibility-attendance<br>*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  |

**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, Program Director, at 409-933-8607 or email at: [dlewis22@com.edu](mailto:dlewis22@com.edu)

## Course outline:

### 10 Week Course Calendar

| Week# | Date      | Topic  | Reading Assignments & Homework Due Dates   |
|-------|-----------|--|--|
| 1     | 6/06/2023 | <b>Tuesday: Introductions discussions<br/>Syllabus<br/>(Lab)</b>   | <p>Discussion 1: Introduce yourself in class.</p> <p>-Recorded safety video: covering incident with system material of that week. Every student must record a five-minute presentation video on DL2. (sign-up sheet)</p> <p>- Questions/Answers for Chapters 1- 4 are due, upload to DL2.<br/><b>Due 6/12/2023 (in the back of each chapter)</b></p> |
| 2     | 6/13/2023 | <b>Module 1: Utility Systems<br/>Chapter 1-3<br/>Thursday: Chapters: 4-5</b>   | <p>-Safety case study 1: chapter one due 6/12/2023</p> <p><b>-6/13/2023 Census</b></p>   |
| 3     | 6/20/2023 | <b>Module 1: Quiz 1<br/>Review<br/>(lab)<br/>Module 1: Exam 1</b>  | <p>- Questions/Answer for Chapters 10-13 are due, upload to DL2.<br/>Due 6/25/2023 (in the back of each chapter)</p> <p><b>Juneteenth Holiday</b></p>  |
| 4     | 6/27/2023 | <b>Module 2: Process Systems<br/>Reaction system<br/>Chapters: 10 and 11<br/>(lab)<br/>Chapters: 12 and 13<br/>(lab)</b> | <p>-Safety case study 2: Chapter four due 7/03/2023</p>  |
| 5     | 7/04/2023 | <b>Quiz 2<br/>Review<br/>Lab</b>   | <p>Safety case study 3: chapter 10 page 181 due 7/23/2023</p> <p>-Questions for Chapters 14, 15 and 16 are due 7/9/2023, upload to DL2.</p> <p><b>Fourth of July Holiday</b></p>   |

|    |            |   |  |
|----|------------|---|--|
| 6  | 7/11/2023  | <b>Exam 2<br/>Module 2a: Separation systems<br/>Chapters 14, 15, and 16</b>     | Questions for Chapters 17 and 18 are due, upload to DL2. Due 8/19/2023 (in the back of each chapter) |
| 7  | 7/18/2023  | <b>Module 2a: Separation Systems<br/>Chapters 17 and 18<br/>(Lab)</b>           | Questions for Chapters 6-9 are due, upload to DL2. Due 7/30/2023 (in the back of each chapter)       |
| 8  | 7/25/2023  | <b>Quiz 3<br/>Review<br/>Exam 3<br/>Module 3: Auxiliary<br/>Chapter 6 and 7</b> | -Safety case study 4: chapter 16 page 292 due<br>- 7/31/2023 W-Day                                   |
| 9  | 8/1/2023   | <b>Module 3: Auxiliary<br/>Chapter 8 and 9<br/>Quiz 4<br/>Review</b>            |  |
| 10 | 08/08/2023 | <b>Exam 4 and Capstone</b>  |  |
| 11 |            | Grades due 8/14/2023 by Noon  |  |

**\*\*Schedule is subject to change at the discretion of the instructor(s). \*\***

## 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 [Student Handbook 2022-2023 v4.pdf \(com.edu\)](#). *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 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](mailto:klachney@com.edu). The Office of Services for Students with Disabilities is 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 March 1. The last date to withdraw from the 16-week session is April 24. The last date to withdraw for the 2<sup>nd</sup> 8-week session is May 3.

**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](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).