

**PTAC 2420**  
**Process Technology II - Systems**

**Western Texas College**

- I. Basic Course Information
  - A. A study of various process systems including related scientific principles.
  - B. Suggested prerequisite: Process Instrumentation, Process Technology I-Equipment
- II. Student Learning Outcomes
  - A. Describe the process and function of common process systems; and explain and demonstrate the operation of each process system. Assignment rubrics, labs and exams will measure grading.
- III. Major Course Requirements
  - A. Requirement: Comprehensive Final Exam.
  - B. Requirement: NO MAKEUP ON MISSED EXAMS.
- IV. Information on Books and Other Course Materials
  - A. Book: Instructor's resources.
- V. Other Policies, Procedures and Important Dates are available in the [Catalog](#).
- VI. Course Organization and Schedule:
  - A. Weekly Course Schedule

Week Number	Section/Online Work
Week 1	Week 1 Handouts; and Intro to Moodle Chapter 1
Week 2	Fire, Utility, Waste, Cooling Water Systems
Week 3	Natural and Fuel Gas Systems and Relief, Flare Systems
Week 4	Steam Generation and Boiler Feedwater System
Week 5	Steam distribution and Condensate Recovery systems
Week 6	Test 1
Week 7	Distillation Systems
Week 8	Reactor Systems
Week 9	Stripping Systems
Week 10	Absorption, Adsorption and Filtration Systems
Week 11	Test 2
Week 12	Refrigeration Systems
Week 13	Combustion and Crystallization Systems
Week 14	Blending Systems

Week 15	<b>Final Review</b>
Week 16	<b>Final Exam</b>

Disclaimer: Schedule and content is subject to change at the instructor's discretion.

Labs (10% Attendance)	40%
Homework	40%
Tests / Final Exam (average)	20%

Last Modified: August 29, 2016