

# Bossier Parish Community College

## Master Syllabus

**Course Prefix and Number:** OGPT 225

**Credits:** 3-2-1

**Course Title:** Process Technology I: Equipment

**Course Prerequisite:** OGPT 102

**Course Co-requisite:** PHSC 105

**Textbook(s):** Course Conducted with Class Handout Material (no course book required), and computer Based Simulation Software (Simtronics)

**Course Description:** This course is a study of major types of equipment used within the process technology industry. The course includes equipment identification, equipment processes, standard operating procedures, routine maintenance procedures, and troubleshooting related to process equipment while considering environmental, health, and safety issues related to common process equipment.

### Learning Outcomes:

At the end of the course, the student will:

- A. demonstrate familiarization with equipment labeling, symbols and terminology used to identify, operate, and analyze the different refining processes.
- B. determine and control the physical forces transmitted through the systems.
- C. described all phases of the entire refining process.
- D. know flow characteristics and applications throughout the flow process and for each component in the process
- E. identify abnormal operating conditions and procedures for control
- F. determine handling of by-products during the flow process
- G. determine the uses of external support systems of the process

### Course Objectives:

To achieve the learning outcomes, the student will:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. define terminology and measurement principles used in process flow (A, C)
2. describe how transmission of forces and energy is controlled throughout the process (B, D, E)
3. describe the operation of each process component (C,F)
4. list different types of process components
5. describe how the control of abnormal operating conditions is accomplished (E, G)

6. identify valves, accumulators, flow controllers, and external support systems (B, D, G)
7. identify values and explain the process from well bore to point of sales (D, F, G)
8. draw the symbols, devices, and explain operation of the “flow control” (A, D)
9. explain the uses of pressure control valves, pumps, external support systems (D, G)
10. describe the separation of produced hydrocarbons, and by-products to the point of sales (C, D, F, G)

**Course Grading Scale:**

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F

*Evaluation of Course and Instructor:*

*All students will be notified through BPCC email and Blackboard when it is time to evaluate the course and instructor. Evaluations are performed through Blackboard regardless of the instructional delivery design of the course (i.e., face to face, hybrid, lab, or internet). The period for course and instructor evaluation is scheduled by the institution and lasts for only two weeks.*

**This course is accompanied with and additional fee for supplemental materials**

**COORDINATOR FOR SECTION 504 AND ADA**

Angie Cao, Student and Disability Services Specialist

Disability Services, F-254

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6511

Email: [acao@bpcc.edu](mailto:acao@bpcc.edu)

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

**Equity/Compliance Coordinator**

Teri Bashara, Director of Human Resources

Human Resources Office, A-105

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6056

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.