

ENGY 1330-PROCESS TECHNOLOGY 1 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course introduces the student on the usage of common process equipment. Appropriate terminology and identifying process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors and engines, heat exchangers, cooling towers, heaters and furnaces, boilers, filters and dryers and vessels. Included are basic functions, scientific principles and symbols. Students will identify components on typical process flow diagrams, piping and instrument diagrams.

Prerequisites: None

Semester Offered: All



Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. List common hand tools used in Industrial Operations A copy of this approved syllabus is on file in the dean's office. Updated 2017-05-01

- 2. List and identify process equipment found in Industrial process operations, i.e. piping, valves, tanks
- 3. List different types of pumps, compressors, motors and turbines and describe the operation of each
- 4. Describe different heat exchangers, components thereof and the operation of each
- 5. Describe types and operation of boilers and list associated equipment for each boiler
- 6. Describe various types of furnaces, basic components and operation thereof
- 7. List basic instruments used in process industry and recognize symbols for these instruments on drawings
- 8. Name symbols on process flow diagrams
- 9. Identify the utility systems found at Industrial Process Operation facilities