

COURSE PREFIX:	FPT 225
COURSE TITLE:	Pulping Technology II
LEC HRS/ WEEK:	3.0
LAB HRS/WEEK:	3.0
CREDIT HRS/SEMESTER:	4.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

Course Description:

This course is the study of the processing and bleaching of kraft pulps. Students will learn how to provide process improvement & troubleshooting support in brownstock washing and pulp bleaching operations.

Course Competencies:

Upon successful completion of this course, the student should be able to:

Module 1: Pulp Processing

- Describe how variations in wood and chip properties affect pulping operations and pulp properties.
- Describe pulping liquor variables and tests.
- Describe the chemical reactions that occur in kraft pulping.
- Describe the effects of pulping variables, including chemical charge and composition, and cooking conditions, on pulp properties.
- Describe the mechanical pulping processes and variables.
- Describe how to control pulping, and troubleshoot variations.
- Describe the variables that affect pulp washing efficiency.
- Describe the variables that affect screening and cleaning

Module 2: Bleaching

- Describe the major bleaching processes.
- Describe the chemical reactions in the different bleaching stages.
- Describe the control variables in the bleaching stages.
- Describe the environmental issues in pulp mill operations.
- Describe the bleaching sequences used for each bleaching process.

Module 3: Other topics

- List safety concepts related to the bleaching equipment.
- List environmental issues related to pulp bleaching.

Minimum Standards

To successfully complete this course, the student must meet course competencies with an average accuracy of 70%. The student must meet this standard in order for the course to serve as a prerequisite and/or for the course to apply towards a certificate.

Course Requirements

Students are responsible for attaining competencies through completion of the following course requirements:

Attendance Policy

Students will be bound by the policies stated in the York Technical College Student Handbook. Students must attend 80% of the hours assigned the class for a semester to receive credit for the course. In case a student does miss a class, the student is responsible for obtaining the material that was covered during the absence. If a student is aware that a class will be missed, then the student should notify the instructor at the earliest possible date. Students with unexcused absences during tests will be allowed to make up tests at the discretion of the instructor. The student has the burden to be sure that some arrangement has been made with the instructor for taking a make-up test.

Academic Honesty

York Technical College adheres to the South Carolina Tech Student code, approved by the State Board for Technical and Comprehensive Education on March 13, 1974 (last revised April 25, 1984). Copies of this code are available in the Library and from Student Services. Any student involved in cheating or any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action. See the student handbook section "Student Life" subheading "Student Conduct" for further details.

Class Participation

Students will be expected to participate in class discussions, to demonstrate problem-solving techniques, to complete tests, homework, lab experiments, lab reports and other assigned work.

Evaluation Strategies/Grading

The grading scale will be as follows:

Grade Points

A	90-100
B	80-89
C	70-79
D	60-69
F	00-59

Evaluation Method

Tests may be written or oral and may contain questions that are true or false, short answer, multiple choice, fill in the blank and/or problems. Students should refer to the instructor for the number of tests to be given and the material to be covered on each test. Each test will be of equal weight unless otherwise indicated by the instructor. Lab grades will be based on the completion of the Course Competencies, team work, safety, class participation, and housekeeping.

Final grades will be determined as follows:

Module 1	Tests	30%
	Lab	10%
Module 2	Tests	30%
	Lab	10%
Module 3	Tests	10%
	Lab	10%
Total Grade		100%

Entry-Level Skills

Students should demonstrate hand-eye coordination, manual dexterity, and be able to work in an industrial environment.

Prerequisites

FPT 101, FPT 102

Co-Requisites

None