

COURSE PREFIX:	<b>FPT 210</b>
COURSE TITLE:	<b>Stock Preparation</b>
LEC HRS/ WEEK:	<b>3.0</b>
LAB HRS/WEEK:	<b>3.0</b>
CREDIT HRS/SEMESTER:	<b>4.0</b>

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

### **Course Description:**

This course introduces the stock preparation process from the high density storage tanks to the headbox approach piping. Students will learn how to describe the stock prep process, stock prep equipment, and safety/environmental concerns.

### **Course Competencies:**

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

#### **Module 1: Refining**

- Describe refining mechanisms and effects of variables.
- Describe the effects of refining on fibers, paper properties, and machine operations.
- Describe how to monitor and optimize refining performance.

#### **Module 2: Additives**

- Describe the different wet and dry strength additives and how they work.
- Describe the mechanisms of sizing and how the different sizing chemicals work.
- Describe the various pigments/fillers, their properties and how they function to increase optical and printing properties.
- Describe the concepts in retention, how the various retention aids work, and what problems they can cause.
- Describe the variety of deposits that occur and what chemicals/operations reduce deposits.
- Describe other functional and operational additives used in papermaking.
- Describe how all of the above additives interact with each other and the different possible sequences of addition

#### **Module 3: Environmental and Safety Issues**

- Describe the fiber recovery and white water operations.
- Describe recycling, including categories of waste paper, contaminants, pulping, de-inking, washing, flotation, screening, cleaning, and bleaching of recovered fibers.

## **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	25%
	Lab	10%
Module 2	Tests	25%
	Lab	10%
Module 3	Tests	25%
	Lab	5%
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

### **Co-Requisites**

None