

COURSE PREFIX:	FPT 215
COURSE TITLE:	Paper Machine Wet End
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 a study of the wet end of the pulp/paper machines including the approach piping, head box, and forming and press sections. Students will learn how to describe the wet end process & equipment, safety & environmental concerns, and headbox dynamics.

Course Competencies:

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

Module 1: Fundamentals of wet end operation

- Describe approach system equipment and operations, including basis weight, dilution, and flow.
- Describe equipment and operations, including uniform flow, microturbulence, jet/wire functions, etc.
- Describe the operations occurring on the wet end, including MD/CD orientation, formation, CD variations, water removal strategies, and control of these operations.
- Describe the different forming fabrics and how they function.
- Describe the variety of presses in use, the mechanisms of dewatering, pressing variables and control.

Module 2: Other wet end topics

- Describe the operation of the auxiliary systems, including vacuum, shower, save all, white water system, fabric cleaning systems, etc.
- Describe the control room, diagnostic, and maintenance operations.
- Describe the importance of wet end operations on paper structure and properties.

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	35%
	Lab	15%
Module 2	Tests	35%
	Lab	15%
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