

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: WOOD HANDLING & PREPARATION
CODE NO.: PPE 100-2 SEMESTER:
PROGRAM: PULP & PAPER TECHNOLOGY
AUTHOR: ANNE TUNNEY
DATE: SEPTEMBER 1990 PREVIOUS OUTLINE DATED: SEPT 1987

APPROVED:  /DEAN -7 DATE ^ 7^9

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TOTAL CREDIT HOURS: 32

PREREQUISITE(S): None

I. PHILOSOPHY/GOALS:

The goals of the course are to introduce the first semester Pulp & Paper student to a broad range of opportunities in the pulp and paper industry, to indicate the linkages between the pulp and paper industry and other sectors of the forest products industry and, most importantly, to start the logical and progressive course of studies through the technology of pulp and paper manufacture.

II. STUDENT PERFORMANCE OBJECTIVES:

1. Demonstrate a knowledge of the pulp and paper technology program.
2. Demonstrate a knowledge of the important forest wood handling technologies.
3. Discuss the important variables which effect wood quality.
4. Demonstrate a knowledge of the important wood yard operations.
5. Explain the major processes used to prepare wood for pulping.

III. TOPICS TO BE COVERED:

1. Introduction to course and program.
2. Forest Centered Wood handling.
3. Wood yard operations.
4. Preparing wood for Pulping.

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IV. LEARNING ACTIVITIES

REQUIRED RESOURCES

1.0 Introduction to the Course and Program

Text "Course Manual for PPE100"
Activity: Read Chapter 1
Complete Assignment

1.1 Introduction to Course,
grading and requirements

1.2 Introduction to the Pulp &
Paper Engineering
Technology Program.

1.3 Basic tools for this
course.

Read Chapter 2 -
Complete Assignment

2.0 Forests

Text "Course Manual for PPE100"
Chapter 3 -

2.1 Describe Canada's forests

Read pgs. 42 - 48

2.2 Ownership & Management

Read pgs. 48 - 62 -
Complete Assignment #3
Complete Review Question

2.3 Forest harvesting.

Text "Pulp and Paper Manufacture
Properties of Fibrous Raw
Materials and their preparation
for Pulping" -
Activity: Read Chapter 12 pgs.
90- 98.

2.4 Forest wood processing.

Text "Course Manual for PPE100"
Activity: Read Chapter 5

2.5 Wood transport methods and
economics.

Complete review questions

2.6 Wood defects.

Text "Pulp and Paper Manufacture:
Properties of Fibrous Raw
Materials and their Preparation
for pulping"
Activity: Read pgs. 66-72 and
pgs. 98-103

TEST I - Section 1 & 2

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3.0 Wood Yard Operations

Text "Manual for PPE100"

Activity: Read Chapter 7 - Complete Review Questions

3.1 Wood yard measurements

Text "Pulp and Paper Manufacture, Properties of Fibrous Raw Materials and their Preparation for Pulping I"
Activity: Read pgs. 103-106

3.2 Wood delivery.

3.3 Wood handling in mill.

Read pgs. 107-108.

3.4 Wood yard costs.

3.5 Storage & reclaim

Read pgs. 112-122.

4.0 Preparing Wood for pulping

Text "Manual for PPE100"

Activity: Read Chapter 8 - Complete Review Questions.

4.1 Sorting - methods & equipment.

4.2 Slashing - methods & equipment.

Text "Pulp and Paper Manufacture; Properties of Fibrous Raw Materials & their Preparation for Pulping I"
Activity: Read pgs. 103-112.

4.3 Debarking - methods & equipment.

Read Chapter 10.

4.4 Chipping - methods & equipment

Read pgs. 122-135.

4.5 Chip Screening & Washing.

Read pgs. 135-141.

4.6 Chip Quality.

Read pgs. 145-150.

TEST II Section - 3 & 4

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V. EVALUATION METHODS:

A final grade will be derived from the results of two tests and several assignments as follows:

2 tests 80% (equally valued)
Assignments 20%

The grading system will be as follows:

A+ = 90-100 A = 80-89 B = 70-79 C = 50-69 R = less than 60%

Students with a final grade between 55-59 will be allowed to write a comprehensive supplemental test.

VI. REQUIRED STUDENT RESOURCES:

Kocurek, M. J. (editor) Pulp & Paper Manufacture, Vol. 1: Properties of Fibrous Raw Materials and their preparation for pulping, Joint Textbook Committee, Montreal, 1984.

Sugden, A. Course Manual for PPE100, Sault College, Sault Ste. Marie, 1990.

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Periodical Section - (Magazines, Articles)

Tappi Journal
Pulp & Paper Journal

VIII. SPECIAL NOTES

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.