

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

COURSE OUTLINE

COURSE TITLE: PULP AND PAPER INDUSTRY PROJECT

CODE NO: PPE 361-4 **SEMESTER:** VI

PROGRAM: PULP & PAPER ENGINEERING TECHNOLOGY

AUTHOR: ADAM SUGDEN

DATE: MAY 1990 **PREVIOUS OUTLINE DATED:** NOV. 1984

APPROVED: 
DEAN DATE *f*

Pulp & Paper Industry Project

PPE 361-3

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TOTAL CREDIT HOURS:

PREREQUISITES: AVAILABLE ONLY IN 6TH SEMESTER

I. PHILOSOPHY/GOALS:

The purpose of this course is to allow the student to explore, in more depth, a technological project related to his or her work experience or course work. This is achieved by undertaking a suitable project, developing and analyzing appropriate data and preparing a comprehensive report on the project's work and its interpretation.

II. STUDENT PERFORMANCE OBJECTIVES:

The overall educational objective of this course is that the student can demonstrate the ability to research and carry out a suitable technical project and to report this in an acceptable written format.

Upon completion of this course the student will be able to:

1. Demonstrate ability to focus on a specific technical problem and develop an appropriate hypothesis.
2. Demonstrate ability to carry out a review of the literature relative to the chosen problem.
3. Demonstrate ability to design and carry out the research work associated with the project.
4. Demonstrate ability to analyze collected data and draw appropriate conclusions from them.
5. Demonstrate ability to prepare a finished written report using an acceptable format.

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III. TOPICS TO BE COVERED:

REQUIREMENTS;

The following is a list of requirements to be met by each student in carrying out the project work and preparing his or her final report. The times that are referred to relate to the schedule for carrying out certain requirements.

1. In collaboration with Faculty, select a Project subject and prepare a 1-2 page Project Proposal. This is to be completed by Week 3 of Semester 6.
2. The Project Proposal must contain: (a) a tentative title for the Project; (b) a hypothesis developed for the project; (c) a brief outline of the expected experimental work; (d) a list of the equipment and supplies needed and (e) a statement of the expected results.
3. The Project Proposal will be marked and returned by Week 5 of Semester 6 with approval to proceed on the Project. If approval is not given, the Project Proposal must be modified with the assistance of Faculty.
4. Background reading, relevant to the Project, that is required for the development of theoretical and experimental components of the work will be started by Week 4 of Semester 6 and should be completed by Week 5.
5. A literature review, drawn from the background reading material, will be prepared and submitted for approval by Week 6 of Semester 6.
6. The student's Project work will commence as early in Semester 6 as feasible, but no later than Week 6. The objective is for the student to carry out this work on his or her own. Periodic progress meetings will be held with Faculty.
7. Seminars will be presented during Weeks 9 and 10 of Semester 6 in order for the student to report his or her progress to date and to allow the work to be subjected to constructive peer criticism.
8. The completed Project Report, in its final form, will be submitted for evaluation no later than the end of Week 14 in Semester 6.
9. The format of the Project Report will follow that specified in Pulp & Paper Engineering Technology Format for Semester 6i Project Reports which will be available to students early in Semester 6.

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REQUIREMENTS - Continued:

During the early part of the semester, regular meetings (two hours, once per week) will be held. The purpose of these meetings is to guide students in selecting topics, setting hypotheses, carrying out literature searches, designing experiments and preparing the final report.

Late in the semester, these hours will be used for meeting with individual students to discuss their progress.

IV. EVALUATION METHODS:

Grading will be based on the student's performance in one informal seminar based on the project as well as on the preparation of the final report. The seminar will be worth 20% of the final mark for the course with the Report being worth 80%. The report will be evaluated in terms of technical content, presentation, completeness, interpretation of data and on its merits as a written report. This means that writing skills will be fully evaluated.

Letter grades will be assigned as follows:

A+= 90-100%
A = 80-89%
B = 70-79%
C = 59-69%
R = -59%

Students having a final grade of "R" will have to repeat the course in order to obtain credit. There are no supplemental tests for this course.

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V. REQUIRED STUDENT RESOURCES:

There is no textbook for this course. Access to word processing facilities (or typing) is a requirement for the final report.

VI. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Use of all relevant texts, reference books, journal articles is required. In addition, faculty members may make private materials available to students.

VII. SPECIAL NOTES:

The course will be presented in one double period once per week. The use of this period will be subject to modification by the faculty member involved. Individual students will be assisted as required during the course.