

**SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON**



COURSE OUTLINE

Course Title: Current Topics in Pulp & Paper

Code No.: PPE 364-2/ENV 316-2 Semester: VI

**Program: Pulp & Paper Engineering Technology
Environmental Engineering Technology**

Author: Lory Vanderzwet

Date: April 1998 Previous Outline Date: March 1996

**Approved: *)IAJ1V<^,IM<^ _____ f&^>*/f'k' _____
Dean Date**

Total Credits: 2

Prerequisite(s):

Length of Course: 16 weeks Total Credit Hours: 32

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L COURSE DESCRIPTION:

This is a seminar course given by the students, together with guest speakers, to add depth and breadth to the students' studies. Students will prepare and present a seminar on a topic of special interest, with particular emphasis being given to those subject areas not covered elsewhere in the program. A written report on the seminar subject will also be submitted.

II LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

(Generic Skills Learning Outcomes placement on the course outline will be determined and communicated at a later date.)

Upon successful completion of this course the student will demonstrate the ability to:

- 1) Focus on a specific technical issue and develop a suitable seminar and report topic.

Potential Elements of the Performance:

- Select a technical issue
- Perform a brief literature search and review
- State the objectives of the study

- 2) Carry out a detailed literature review of material related to the chosen issue in an organized, timely fashion.

Potential Elements of the Performance:

- Present a list of texts, journals, websites, etc. to illustrate reviews as completed
- Perform literature search
- Summarize relevant information
- Prepare bibliography
- Submit progress reports as required

- 3) Prepare a finished written report using an acceptable format.

Potential Elements of the Performance:

- Prepare a rough draft of the report
- Edit rough draft
- Prepare a finalized copy of the report, including tables, figures, etc.
- Prepare a written summary to be available to all students before seminar

**H. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE
(Continued)**

- 4) Demonstrate an acceptable level of oral communication while presenting the report in a seminar.

Potential Elements of the Performance:

- Present the report in a seminar where mannerisms, voice, diction, etc. will be evaluated
- Use overheads, slides or other suitable visual aids
- Answer questions and discuss various aspects of seminar topic

- 5) Demonstrate an acceptable level of communication while others are presenting seminars.

Potential Elements of the Performance:

- Attend all seminars
- Ask appropriate questions for specific seminar
- Assign an appropriate grade to seminar presenter

HI. TOPICS:

While it is not the intent of this outline to limit the nature of topics to be covered in this course, the following list presents a number of topics that are considered to be valid areas from which to draw seminars:

- 1) Pulp & Paper Engineering Technology
- The Industry Today - technological changes, economic trends, social changes
 - Raw Material Changes - increasing use of hardwood and secondary fibres; use of non-wood fibres
 - Chemicals - additives to improve pulping and paper properties
 - Process Automation - current and future trends; capabilities of systems; new equipment and costs

2) Environmental Engineering Technology

- Industry Today - the effect of technological changes, economic trends or social changes on pollution abatement
- Raw Material Changes - effect of alternate raw materials on pollution abatement
- Chemicals - additives to reduce pollution levels in effluent
- Water Use and Pollution Control - purification needed; closed loop systems; treatment and monitoring

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

There is no textbook for this course. Access to texts, journals, reference books and/or the internet is required. As well, access to word processing facilities is a requirement for the final report.

EVALUATION PROCESS/GRADING SYSTEM

The student's performance in this course will be graded as follows:

- | | |
|---|------------|
| 1. Preparation and presentation of one seminar based on a relevant subject of interest | 25% |
| 2. Preparation of an appropriate** written report on the seminar subject | 30% |
| 3. Writing a final exam based on student seminars, guest lecturers and any other materials presented during the course | 30% |
| 4. Attendance and participation for all sessions; three marks will be deducted for each session missed | 15% |

**** Format to be discussed in class**

CURRENT TOPICS
COURSE NAME

PPE 364/ENV 316
COURSE NUMBER

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

VL SPECIAL NOTES:

Special Needs

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.

Retention of Course Outlines

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

Substitute Course Information is available at the Registrar's Office.

VH. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor.