

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

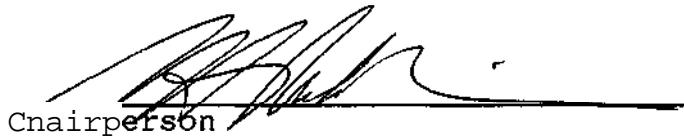
Course Title: ENVIRONMENTAL PROJECT  
Code No.: WTR 323-4  
Program: WATER RESOURCES ENGINEERING TECHNOLOGY  
Semester: V (WINTER 1988) AND VI (SUMMER 1988)  
Date: DECEMBER 1987  
Author: JOHN K. THEIL

New:

Revision: X (2)

APPROVED:

Chairperson



Date

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CALENDAR DESCRIPTION

ENVIRONMENTAL PROJECT

WTR 323-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

This course affords the student the opportunity to develop initiative and self-reliance while working on an environmental related project that he/she has personally chosen. The projects may be selected from a wide field which could cover one or more of the following areas:

- (A) Analysis of existing technological problems.
- (B) Creative design.
- (C) Experimental investigations/technical literacy investigations.
- (D) Real-life problems suggested by industry, community at large, and/or innovative ideas of the student, the faculty or other.

The specific objectives are given on the attached.

METHOD OF ASSESSMENT (GRADING METHOD):

The student will be assessed by letter grade based on the following aspects, weighted on a percentage basis as shown.

	<u>Weight (%)</u>
1. Project organization	10
2. Level of effort	10
3. Seminar presentation and attendance	20
4. Report - Graphics	60
Structure	
Literary Quality	
Technical Quality	

Each of the above aspects of the project must be acceptable to the instructor.

<u>Grading;</u>	A = 80-100%
	B = 70-79%
	C = 60-69%

A minimum composite grading of 60% will be required for the successful completion of the course.

**WTR 323-4 ENVIRONMENTAL PROJECT**

OBJECTIVES

The student will be able to:

1. Learn effective methods of problem solving on an independent basis.
2. Gain experience in the organization, timing and scheduling of work.
3. Learn the use, selection, etc. of the associated manual skills of simple tools, equipment and materials involved in the project.
4. Develop and/or improve self-confidence via satisfactory achievement.
5. Gain practical experience and technical knowledge in a technological and/or scientific field.
6. Achieve an acceptable level in oral and written communication via oral presentation of the report and written formal report.

GENERAL REQUIREMENTS

The student will be required to carry out any necessary field investigations, data collection, bench scale model construction, experiments, laboratory testing and literature review. In addition, a high degree of self-motivation, organization, technical ability and communication skills will be expected.

During the course of the project, typed submissions of the following will be required:

TOPIC  
OBJECTIVES  
PROPOSAL  
DRAFT REPORT  
FINAL REPORT

Each student will be expected to prepare a schedule for the project in conjunction with the Proposal, and to maintain an up-to-date diary of project activities. The final report is to be bound and submitted in duplicate.

The successful completion of the course includes seminar presentations of the Proposal and the Project by the student. The Proposal Presentation is to include a typed submission of the title page, the objectives and a summary page of the project proposal for distribution prior to the presentation. The time intervals for the proposal and the project presentations will be 10-20 minutes and 20-30 minutes, respectively, followed by questions and discussions.

WTR 323-4 ENVIRONMENTAL PROJECT

TIMETABLE

The project should be carried out in accordance with the following timetable:

Topic Submitted	February 5, 1988
Objectives Submitted	February 26, 1988
Proposal Submitted	March 31, 1988
Proposal Presentation	April 11-22, 1988 *
Draft Report Submitted	June 30, 1988
Final Report Submitted	August 5, 1988

Failure to submit the Proposal and to make arrangements for the subsequent Proposal Presentation by April 22 will result in an "R" grade being given, with the result that the course must be repeated in its entirety. Also, the final report must be submitted on or before August 5, 1988.

\* The Proposal Presentation may be scheduled earlier on an individual basis, if desired, by the student.