SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

CODE NO.: ENV 324	SEMESTER: VI
PROGRAM: ENVIRONMENTAL	ENGINEERING TECHNOLOGY
AUTHOR: BRAD KIRK	
DATE: APRIL 1997 PRI	EVIOUS OUTLINE DATED: NEW
APPROVED: DEAN	APRIL 17, 1997 DATE
TOTAL CREDITS 4	
PREREQUISITE(S):	
LENGTH OF COURSE: <u>16 WEEKS</u>	TOTAL CREDIT HOURS: 64

ENVIRONMENTAL IMPACT ASSESSMENT -2-

ENV 324

COURSE NAME

CODE NO.

- L COURSE DESCRIPTION: This course will present information on the environmental impact assessment process, covering both economic and legislative considerations, with a view toward the preparation of environmental impact reports.
- 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) Discuss the basic economic aspects of pollution control.

Potential Elements of the Performance:

- i) Define waste, pollution, and residual management
- ii) Perform a benefit-cost analysis on simplified problems
- iii) Explain the limitations of benefit-cost analysis
- 2) Describe the Legislative requirements of Environmental Impact Assessment in Ontario.

Potential Elements of the Performance:

- i) Define "environment" according to the Environmental Assessment Act
- ii) Describe the Environmental Assessment Process in Ontario
- iii) Describe the documents required in an environmental assessment process
- 3) Describe the purpose and nature of a Class Environmental Assessment.

Potential Elements of the Performance:

- i) Explain the application of a class EA
- ii) Describe the planning and design process in class EA
- iii) Discuss the main features of a typical class EA

ENVIRONMENTAL IMPACT ASSESSMENT -3-

ENV 324

COURSE NAME

CODE NO.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE (Continued)

4) Describe methods of forecasting environmental impacts.

Potential Elements of the Performance:

- i) Describe the uses of judgmental approaches, physical models, and mathematical models in forecasting environmental impacts.
- 5) Describe methods and processes for evaluating environmental impacts.

Potential Elements of the Performance:

- i) Describe some of the issues in multi-criteria evaluation
- ii) Explain the need for and methods of involving the public in evaluation

III. TOPICS:

- 1) Environmental Quality and Decision Making
- 2) Residuals Management
- 3) The Environmental Assessment Process
- 4) Guidelines for the Preparation of Environmental Assessments
- 5) Class Environmental Assessments
- 6) Forecasting Environmental Impacts
- 7) Evaluating Environmental Impacts

ENVIRONMENTAL IMPACT ASSESSMENT -4-

ENV 324

COURSE NAME

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IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Municipal Engineers Association, <u>Class Environmental Assessment for Municipal</u> Sewage and Water Projects.

ADDTIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY BOOK SECTION:

Canter, Larry W., Environmental Impact Assessment, McGraw-Hill Book Company.

Ortolano, Leonard, Environmental Planning and Decision Making, John Wiley & Sons

V. EVALUATION PROCESS/GRADING SYSTEM

	Assignments	40%		
	Mid Term Test	30%		
	Final Exam	30%		
A+	90 - 100%	Α	80 - 89%	
В	70 - 79%	С	60 - 69%	
R	Below 60%			

Due dates will be specified for all assignments. Late assignments will be assessed a penalty in accordance with the attached policy. Dates and times for the mid term test and final exam will be announced at least one week in advance and attendance at these is mandatory.

ENVIRONMENTAL IMPACT ASSESSMENT -5-

ENV 324

COURSE NAME

CODE NO.

VI. 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.

- Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.
- Substitute Course Information is available at the Registrar's Office.
- Any Other Special Notes appropriate to your course.

VII. PRIOR LEARNING ASSESSMENT

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

LATE POLICY

ADDENDUM TO COURSE OUTLINES

SEMESTER -- Summer 1997

COURSE: ENV 324

Students will be assessed the following academic penalties for late submission of assignments/laboratory assignments.

Assignments are due at the start of each scheduled class.

ASSIGNMENTS (Where Applicable):: Late Assessment

- 20% if not submitted when due
- *10% additional for each successive day
- 100% if submitted post marking

LABORATORY ASSIGNMENTS (Where Applicable)::

Late Assessment

Attendance:

- 20% first late infraction
- 50% second late infraction
- 100% third and successive infraction(s)

Write-ups: - Due by 12 noon one week from date of experiment. Students have the option to submit write-ups at the beginning of any scheduled lecture or lab on the due date.

Late Assessment

- 20% if not submitted when due
- *10% additional for each successive day
- 100% if submitted post marking

* Students are aware that they risk a mark of "zero" if lateness goes beyond two (2) days.

Assignments should be submitted directly to the Professor to ensure that they are not misplaced. The Professor is not responsible for assignments deposited through his office door/mailbox.



1/20	L	17	1997	
Date		,		