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



COURSE OUTLINE

COURSE TITLE:	NET 310 Environmental Assessment Implementation &		
CODE NO.:	Monitoring SEMESTER:		
PROGRAM:			
AUTHOR:	Robert Rat	tle	
DATE:	15/12/11	PREVIOUS OUTLINE DATED:	
APPROVED:			
		"C.Kirkwood"	
TOTAL CREDITS:		Dean	DATE

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PREREQUISITE(S):

HOURS/WEEK:

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For additional information, please contact Colin Kirkwood, Dean, Environment and Design School of Technology and Natural Resources

(705) 759-2554, Ext. 2681

NET 310 - Environmental Assessment Implementation and Monitoring

COURSE DESCRIPTION: This course will focus on the documentation of potential environmental effects of projects subject to the Environmental Assessment Act and measures to mitigate these effects in a comprehensive report. In addition, the design of follow-up programs to assess the effectiveness of mitigating measures will be covered.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

- List and describe the necessary steps for completion of an environmental assessment in Canada
 - Potential Elements of the Performance:
 - describe the EA process
 - outline the necessary types of information for completing an EA in Canada
- 2. Describe best practices when conducting an environmental assessment

Potential Elements of the Performance:

- list the various stages of an EIA
- explain the role of each stage in an environmental assessment
- list and describe the various methods used for each stage
- discuss the merits of different methods for different applications
- 3. Explain the different types of assessments, the significance of the social, health and environmental components and the role of public participation in an assessment process

Potential Elements of the Performance:

- describe and discuss the different types of assessments used in an environmental assessment
- explain their uses and merits
- explain their differences
- describe the different techniques and methods each use
- 4. Design, develop and execute a public consultation plan Potential Elements of the Performance:
 - explain the basic and operational principles of meaningful participation
 - describe various methods and techniques used for public

consultation

- explain the role of local and traditional ecological knowledge
- 5. Describe the function and elements of a cumulative effects assessment

Potential Elements of the Performance:

- Define cumulative effects
- Describe types of cumulative effects
- identify different models to assess cumulative effects
- Design a follow-up plan to assess the effectiveness of mitigation measures and explain the development and use of different types of indicators

Potential Elements of the Performance:

- describe what an indicator is and the different types
- explain the difference between types of follow-up monitoring
- list and describe a variety of monitoring methods and techniques

III. TOPICS:

- 1. Environmental assessment process
- 2. Stages of the EIA in Canada
- 3. Environmental social, health and other assessments
- 4. Public participation
- 5. Cumulative effects assessment
- 6. Indicators, monitoring and follow-up

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Introduction to Environmental Impact Assessment, Noble.

Approach to learning:

Although there will be lectures, students are encouraged to participate and share their perspectives on the respective themes as much as possible. A significant proportion of classes will be dedicated to class activities based on readings and assignments. A portion of the evaluation for this course depends upon the student being able to demonstrate your comprehension of the materials by engaging in class discussions and activities on the respective themes, completing assignments, and raising questions about specific subject matter. Emphasis will be placed on creating a positive environment whereby students can express themselves without fear of criticism or judgment. This approach to learning recognizes that everyone has something to contribute to class discussions, and reduces the amount of lecture time for any given topic.

V. EVALUATION PROCESS/GRADING SYSTEM:

Term Assignment – 40% Assignments - 50% Class Participation and Activities – 10%

The following semester grades will be assigned to students:

		Grade Point		
Grade	<u>Definition</u>	Equivalent		
A+	90 – 100%	4.00		
Α	80 – 89%	4.00		
В	70 - 79%	3.00		
С	60 - 69%	2.00		
D	50 – 59%	1.00		
F (Fail)	49% and below	0.00		
CR (Credit)	Credit for diploma requirements has been awarded.			
S	Satisfactory achievement in field /clinical placement or non-graded subject area.			
U	Unsatisfactory achievement in			
O	field/clinical placement or non-graded			
	subject area.			
X	A temporary grade limited to situations			
	with extenuating circumstances giving a			
	student additional time to complete the			
	requirements for a course.			
NR	Grade not reported to Registrar's office.			
W	Student has withdrawn from the course			
	without academic penalty.			

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.



COURSE SCHJEDULE: Subject to change

Week/ Hours	Topic/Chapter	Concepts Covered
Week 1	Introduction	overview
		CEAA
		provincial EA
		EA process
		positioning implementation and monitoring in process
		definitions
		classification of effects and impacts
Mark 2	1110	introduction to HIA
Week 2	HIA and term assignment	what is HIA
		process
		methods
		key values
		roles in impact assessment
		term project process outline:
		data collection
		workshop
		research
		analysis
		reporting
		community website: http://pointesprotection.org
		http://www.sootoday.com/content/news/details.asp
		?c=36884
		http://www.lssu.edu/bpac/wp-
		content/uploads/2011/09/BPACminutes03272012-4-
Week 3	Introductions to Pointe	Agency-and-Pres.pdf
week 3		community
	Estates proposal	proponent
		definitions
	EIA Methods	purposes
		types
		advantages and disadvantages
Week 4	Screening	significance
VVCCK 4	Joreening	approaches
		approdenes

		guidelines
		roles
		precautionary principle
Week 5	scoping and baseline	issues, boundaries, focus
week 5	scoping and baseline	types
		alternatives
		evaluating alternatives
		VECs
		issues to consider
		spatial, temporal and jurisdictional bounding
Week 6	impact prodictions	
week o	impact predictions	accuracy and precision
		tools and techniques
		predicting impacts on human and biophysical
		environments
		components, techniques, challenges and verification
Week 7	impact significance	determining impact significance
		direction, magnitude, probability, duration and
		frequency, spatial extent
		standards and regulations
		cumulative effects
		values
		methods
Week 8	managing impacts and	managing adverse and beneficial impacts
	monitoring	strategies to manage impacts
		types of monitoring
		follow-up
		data collection, approaches and techniques
Week 9		
Week	study week	
10		
Week		
11		
Week		
12		
Week		
13		
Week	Term assignment due	
14		
Most	Final avera	
Week 15	Final exam	
	1	1

Term Assignment
Participate in the completion of a Health Impact Assessment of the Pointes
Estate development (proposal) located in west Sault Ste. Marie.