

Course Outline
NRI 7250 ENVIRONMENTAL MANAGEMENT PRACTICES

INSTRUCTOR

Dr. Shirley Thompson

Natural Resources Institute, University of Manitoba, Room 314

work: (204) 474-7170 fax: 204-261-0038

e-mail: s_thompson@umanitoba.ca

Office hours: 10:00 -6:00 Tuesday to Friday

COURSE OBJECTIVES

- To develop skills and knowledge for translating the theory and concepts of resource and environmental management into practice relevant to communities and workplaces today.
- To apply monitoring and environmental management tools used by resource and environmental practitioners.
- To consider the impacts of flows (energy, water, resources/waste) within the built, urban, agricultural and natural environments.

Environmental management systems (e.g., 14001 and Natural Step), best management practices and project management will be discussed.

Environmental management system is broken down into its parts:

- 1) Awareness or PLAN (e.g., Environmental Policy, Risk Assessment, Life Cycle Assessment, Objectives, Targets, Strategic Analysis (SWOT), Environmental Audit, Scenario Analysis.
- 2) Action or DO AND CHECK (e.g., Monitoring, Activities, LEED, Educational programming, Media campaign, Design changes), and,
- 3) Advancement or REVIEW (e.g., Sustainability Report, Triple Bottom Line, Environmental Audit -- verification).

COURSE TEXT

There is no course text book. Articles and chapters of books will be made available in the photocopy room or electronically.

COURSE FORMAT

A variety of teaching methods will be used to achieve course objectives including: lectures, debates, tours, class discussions, presentations, facilitation, readings and group work. Classes will involve short lectures, guest speakers, different site visits and group work. Participation in class will be required. Emphasis is placed on interaction and dialogue between instructors and students – as a result reading of articles is mandatory.

COURSE REQUIREMENTS AND EVALUATION

All students are expected to:

- Attend classes and participate fully in discussions/activities of the lecture topics.
- Read articles for class and take notes – use these and other references in debates and assignments.
- Complete topic assignment on time. Students will be deducted 5 percentage points for each day that an assignment is late.
- Notify the instructor in advance if they will not be able to attend class or submit an assignment on time.

Evaluation will be based on the following assignments and weights:

Debate (3 x 5%)	15%
Audit (Group presentation and page handout)	5%
Environmental Plan Essay (see CDTrust requirements – deadline January 25, 2008 OR Analysis (risk assessment, lifecycle analysis, EMS, ecological footprint, SWOT) or essay on sustainability of operations at Tembec or University of Manitoba (due Feb. 25 th))	25%
Biomonitoring Plan	5%
Group Presentation with two page handout (template available)	20%
AAA EMS assignment (due April 14 th)	30%

GRADE NUMERICAL EQUIVALENT

A+	90 - \geq	4 (4.5)
A	85-89	4
B+	80-84	3.5
B	75-79	3.0
C+	70-74	2.5
C	65-69	2.0
D	60-64	1.0
F		0

GENERAL (attendance, withdrawals, plagiarism)

For requirements regarding course attendance and withdrawals please see Section 6 in the General Academic Regulations and Requirements section of the University of Manitoba Graduate Calendar. For rules regarding plagiarism please see Section 7 in the General Calendar.

NOTE: To create a sustainable classroom please refrain from using disposable drink and food containers in class. As well, please provide your essays and assignments electronically.

Agenda
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Date	Course Focus	Element
January 7	Introduction – Environmental Plans, Environmental Management Systems, Goal, Objectives, Activities	Awareness PLAN
January 14	Draft Debate Topic: Environment management plans deliver sustainability at any scale. Audit – Maire McDermot, Mike Ferley, UMRReg	
January 21	Draft Debate Topic: Industry plays a positive leadership role in voluntary environmental management. <i>Speaker: Scott Nicol</i> – Extended Producer Responsibility and Life Cycle Analysis Strategic Analysis Exercise (SWOT) Due: environmental plan essay (guidelines TDTrust) on January 25, 2008 (will provide comments and feedback to earlier versions provided before January 21 st to assist).	
January 28	Audit report (powerpoint presentation) Strategic Analysis exercise (SWOT) <i>Speaker: Emdad Haque, Risk Assessment</i>	
Feb 4/5	Trip to Tembec leaving Monday at 1:00 and returning Tuesday at 5:00 (bring warm clothing/boots, clothes/swimsuit for wood fired sauna and sleeping bag/pillow – dinner, breakfast and lunch provided).	
Feb 11	Biomonitoring with Dr. Nicole Koper	Action
Feb 25	Biomonitoring with Dr. Nicole Koper Due: Sustainability analysis	ACT AND MONITOR
March 3	Awareness about LEEDs. Tour Aboriginal building, U of M with Prairie Architects	
March 10	Dave Green, Shoal Lake Watershed Management Plan. Debate topic: TBA	
March 17	MEC (Donna) and CIER or IISD: Meet at 1:00 at Mountain Equipment Co-op, Portage Street.	
March 24	Group Presentations/2 page handout	Advancement
March 31	Fort Whyte and Fort Whyte Farms (CEO Bill Elliot and Ian Barret will discuss environmental education programs/entrepreneurial model and links to food security and at-risk communities).	CHECK
April 7	Group Presentations/2 page handout	

April 14th – AAA EMS due