

Resource Management and Sustainability

Geography / ENST 3411, Winter-2013

INSTRUCTOR: Dr. Bradley A. Wilson
Office: RC-2006A
Office Hours: **Mondays:** 10:30 - 11:15am and 12:30 - 1:30pm,
Wednesdays: 10:30 – 11:15am,
Fridays: 11am-12:45pm,
otherwise, please make an appointment

CLASSES: WF - 1-2:20pm, BB-1075

READINGS: 1. Mitchell (2010): Resource and Environmental Management in Canada
2. Additional readings on 2-hour reserve in Library or online (see next page)

*GRADING: Midterm Exam #1 27.5% (Feb. 13, please arrive early)
Midterm Exam #2 32.5% (Mar. 22, please arrive early)
Final Exam 40% (TBA)

* Exams are a mostly a combination of short answer and concise essay format as well as other types of questions. **Your ability to communicate clearly and concisely in written form are crucial components of your overall evaluation in this course. Clarity, grammar, and punctuation are all requirements for good communication in the written form. Poor writing styles such as point form are unacceptable in this class.**

All exams are cumulative.

Absences from illness, compassionate reasons or representing the university off-campus, supported by written documentation, will be accepted as sufficient evidence to allow a re-write of a missed test or an extension on an assignment. **Missed tests for any other reason, including undocumented illness, may be made up at a date and place to be determined. This test will consist of full-length essay questions and will be significantly harder than the original.**

COURSE DESCRIPTION:

This course focuses on four dimensions of resource management: ecological, economic, social/behavioural and institutional/decision-making. The goals of the course are:

- to draw attention to existing problems of resource and environmental management;
- to examine new concepts in sustainable resource management;
- to demonstrate the need for integrative and interdisciplinary approaches as well as critical but constructive approaches to problem solving in resource management; and
- how to deal with uncertainty in the decision making process.

Student Responsibilities: - read chapter and/or readings before class
- attend all classes and arrive on time
- please ask questions, participate by sharing your experiences!

WEEKLY OUTLINE OF LECTURES

Note to students: Please review this outline and note the chapter readings or assigned readings (in brackets). Other assigned readings are on ^(#) 2-hour reserve in library or online.

Week 1

Precautionary Principle

Conflicts and Uncertainty in RM

(Assigned Readings)

(Mitchell: Part 1 Emerging Concerns)

(Mitchell: Introduction)

Week 2

International Economic Agreements

(Mitchell: Chapter 2)

(canadians.org/trade/documents/NAFTA-chapter11.pdf) and
(optional reading: The Fight for Canada, D. Orchard)

Week 3

Current Issues with FTA, NAFTA, GATT, etc.

(see Week 11 below)

Nature's Services

(assigned reading: ¹ Daily et al., 1997)

Week 4

Nature's Services

(http://www.uvm.edu/giee/publications/Nature_Paper.pdf)

Week 5

Ecosystem Management
(1994)

(Mitchell: Chapters 1 and 15 & ² Grumbine,

Week 6

*** Midterm Exam #1 *** Feb. 13, please arrive early

Community-Based Resource Management

(Chapter 18; and assigned readings: ³ Berkes, 1995
& oregonstate.edu/dept/IIFET/2000/papers/singleton.pdf)

Reading Break (Feb. 18-22)

Week 7

Conventional vs. Alternative Agriculture

(Mitchell: Chapter 8)

Organic Farming

(www.ocia.org (6 Steps to Certification))

Week 8

Silviculture

(Mitchell: Chapter 9)

New Forestry

(assigned reading: ⁴ Franklin, 1989)

Week 9

Wildlife Issues

(Mitchell: Chapter 10)

Parks and Protected Areas

(Mitchell: Chapter 11)

Week 10

Canadian Fisheries

(Mitchell: Chapter 7)

*** Midterm Exam #2 *** Mar. 22, please arrive early

Week 11

Water Resource Management

(Mitchell: Chapter 6)

(canadians.org/trade/documents/CETA/water-report-1210.pdf)

Week 12

Eliminating Waste (Completely!!)

(Mitchell: Chapter 13)

Cradle to Cradle Design Principles

(optional: Cradle to Cradle, McDonough and
Braungart)