

GEOGRAPHY/ENVIRONMENTAL STUDIES 1120YA / 1140YA (2015-2016)

Environmental Issues – A Geographical Approach

<i>Fall Term Instructor</i>	Dr. Adam Cornwell Assistant Professor, Department of Geography and the Environment <i>Office:</i> RC2006D <i>Telephone:</i> 766-7125 <i>e-mail:</i> acornwel@lakeheadu.ca <i>Hours:</i> Wed. 3-4, Thurs. 11-12
<i>Winter Term Instructor</i>	Dr. Robert Stewart Associate Professor, Department of Geography and the Environment <i>Office:</i> RC2006E <i>Telephone:</i> 343-8430 <i>e-mail:</i> rob.stewart@lakeheadu.ca
<i>Time</i>	Mon and Wed 5:30pm – 7:00pm
<i>Location</i>	RB 1042 (Fall Term: Sept. 14 to Dec. 7) (Winter Term: Jan. 4 to April 4)
<i>Content</i>	<p>Current environmental issues will be examined using a geographical approach that stresses the interrelationships between environments and societies. Such issues are seldom completely new, but have evolved over decades or even centuries. A short overview of the various issues and approaches to them over the years will allow them to be placed in a historical framework. The major physical and societal components of the earth/atmosphere system will be considered in the first term to provide a base for the understanding of the nature and development of modern environmental concerns. The causes, characteristics and impacts of specific problems will be examined in detail in the second term and potential solutions will be evaluated through consideration of such elements as technology, politics, economics and planning and management.</p> <p>The course also incorporates Indigenous knowledge, worldviews and practices to enhance our understanding of ecosystems and our place within it. A focus on traditional ecological knowledge in the first term allows students to compare different ways of knowing to western scientific knowledge. The goal is for students to appreciate and conceptualize environmental issues from a more holistic perspective of nature than the more linear thought processes common to institutional or western forms of knowledge. The second term then engages students in management case studies that exemplify the role of Aboriginal Peoples in ecosystem management in Canada. The role of treaties and aboriginal rights in federal and provincial environment and resource management, the impact of environmental law decisions on Aboriginal Peoples, and the adversarial and collaborative roles that Aboriginal Peoples play in response to environmental change will be discussed.</p>
<i>Text</i>	Dearden, Philip and Mitchell, Bruce (2012). <i>Environmental Change and Challenge (4th Edition)</i> , Oxford University Press, Don Mills, Ontario, Canada

1120 MARK ASSESSMENT

<i>Midterm Exam 1 (Oct. 28)</i>	15%
<i>December Exam (Dec. TBA)</i>	30%
<i>Midterm Exam 2 (Feb. 10)</i>	15%
<i>Final Exam (April TBA)</i>	40%

1140 MARK ASSESSMENT (Those enrolled in Lab Component)

<i>Midterm Exam 1 (Oct. 28)</i>	10%
<i>December Exam (Dec. TBA)</i>	25%
<i>Midterm Exam 1 (Feb. 10)</i>	10%
<i>Final Exam (April TBA)</i>	30%
<i>Lab Assignments</i>	25%

N.B. *Because of the size of the class, requests to write tests and exams outside the normally scheduled time cannot be considered*

FALL TERM 2015 (subject to some adjustment)

Sept. 14 & 16	Chapter 1 Introduction to Environmental Systems Thinking
Sept. 21 & 23	Chapter 2 The Ecosphere: Energy flows and Ecosystems
Sept. 28 & 30	Chapter 2 The Ecosphere: Abiotic and Biotic Components
Oct. 5 & 7	Chapter 3 Ecosystems are Dynamic: Ecological Succession
Oct. 14 & 19	Chapter 3 Ecosystems are Dynamic: Changing Ecosystems
Oct. 21 & 26	Chapter 4 Ecosystems and Matter Cycling: Biogeochemical Cycles
Oct. 28	MIDTERM EXAM
Nov. 2 & 4	Chapter 7 Climate Change: Causes and Patterns
Nov. 9 & 11	Chapter 7 Climate Change: Impacts and Policy
Nov. 16 & 18	Chapter 8 Oceans: Ecosystems and Fisheries
Nov. 23	Chapter 8 Oceans: Management
Nov. 25 & 30	Science and Traditional Ecological Knowledge
Dec. 2 & 7	Semester Review

WINTER TERM 2016

Jan. 4 & 6	Chapter 5 Planning and Management: Philosophy
Jan. 11 & 13	Chapter 6 Planning and Management: Philosophy
Jan. 18 & 20	Chapter 9 Forest Ecosystems
Jan. 25 & 27	Chapter 9 Forest Ecosystems
Feb. 1 & 3	Chapter 10 Agriculture
Feb. 8 & 10	Chapter 10 Agriculture
Feb. 15 & 17	February Break
Feb. 22 & 24	Chapter 11 Water
Feb. 29 & Mar. 2	Chapter 11 Water
Mar. 7 & 9	Chapter 12 Minerals and Energy
Mar. 14 & 16	Chapter 13 Urban Environmental Management
Mar. 21 & 23	Chapter 14 Endangered Species and Protected Areas
Apr. 30	Chapter 15 Making it Happen
Apr. 4	Course Summary

1140 LABORATORY REQUIREMENT

Lab Instructor Mr. Jason Freeburn
Office: RC2004
e-mail: jtfreebu@lakeheadu.ca

1140L1 – Tues 5:30-8:30 (RC2003)

1140L3 - (BB0021) - NRM Students only (Lab Instructor Julie Rosenthal)

- Objective:** To provide additional learning opportunities (to collect environmental data; learn to use base set of equipment for environmental assessment) for Geography majors during their first year.
- Why Join** Each laboratory period will involve hands-on learning of a skill or skills that will enhance your understanding of the discipline and better prepare you for future courses.
- Workload** Most work will be completed in the three hour lab session but some exercises will involve extra time beyond the lab period itself.
- Mark Allocation** The laboratory component of the course will be worth 25% of your final grade in the course. See Lecture course outline for complete breakdown.
- Who should attend** The laboratory is **mandatory** for students in 1140YA, majoring in Geography, Environmental Studies, and Environmental Science (Geography). It is also mandatory for those students enrolled in 1140 Y3 in the Faculty of Natural Resources Management.
- Additional Space** Space may be available in the Geography Lab Section for students of other majors on a first served basis. If you're not enrolled in 1140 but would like to include the Laboratory requirement, please see the 1140 Lab Instructor (Jason Freeburn – RC2004) and attend first lab for section).

Expectations

Deferred Examinations and Assignments:

You must take all examinations during their scheduled periods, and submit assignments on or before the day that they are due. Missed exams and late assignments will be counted as zero credit unless prior approval is provided (email message or hard copy) or appropriate documentation for University approved absence is provided. Approved absence includes illness (medical practitioner certificate), varsity sports (letter or email message from coach), or family emergency (documentation of circumstance). Scheduling conflicts with other courses are not considered an approved absence. Absence due to participation in scientific meetings or field trips associated with other courses will be considered on a case by case basis.

Students at Lakehead University are frequently required to maintain a particular grade average to retain scholarships, to continue in their program, and to eventually graduate. Now is the time to decide what grade you need in this course, budget the time to achieve that mark, and commit to doing the work necessary. Please don't come to your instructors after the course is finished and ask what can be done to address a poor performance.

Special Circumstances or Disabilities:

Students with special circumstances or disabilities are encouraged to contact the Learning Assistance Center right away so that appropriate accommodations can be arranged. It is not necessary to get our permission. The Learning Assistance Center will notify us of any accommodations that are required, and this information is confidential.

Academic Honesty:

The Lakehead University Code of Student Behaviour and Disciplinary Procedures may be found on the university web site. Honesty and integrity are expected in class participation, examinations, assignments, and other academic work. Expectations include that you will:

- Perform your own work unless specifically instructed otherwise;
- Use your own work to complete assignments and exams;
- Cite the source when quoting or paraphrasing someone else's work;
- Follow examination rules;
- Be truthful on all university forms;
- Discuss with your professor if you are using the same material for assignments in two different courses;
- Discuss with your professor if you have any questions about whether sources require citation;
- Use the same standard of honesty with fellow students, lab instructors, teaching assistants, sessional instructors and administrative staff as you do with faculty.

Appropriate Behavior in Class:

Attendance is optional (but highly recommended). Those that do choose to attend class must commit their full attention once the lecture has begun. Questions are welcome, but conversations between students cannot be accommodated because of the large number of students and the acoustics of the lecture hall. Please be considerate of other students around you and refrain from distracting behaviour.

Further, a lecture hall is not a movie theatre. While you're welcome to quietly enjoy a drink or snack, make sure that whatever comes in with you, leaves with you.