

LAKEHEAD UNIVERSITY

2016-17

Prof.: Dr. Rosario Turvey

Office: OA 3025

Department of Geography & the Environment

Email: rturvey@lakeheadu.ca

Phone: (705)-330-4008, extension 2652

Office Hours: 11:30pm – 12:30 pm

Wednesday

or by appointment (and by chance)

GEOG 3471: Environmental Assessment and Management

Wednesday and Friday

1:00-2:30 p.m., OA 2006

Course Objective and Scope

The course introduces environmental assessment in the context of sustainable development and environmental management. Focusing on environmental impact assessment (EIA), lectures will focus on the basic principles of biophysical and socio-economic assessment and how they relate to environmental management policies and practice. Although the Canadian EIA system will be given particular attention, key techniques and methods will also be covered using case studies from selected Canadian jurisdictions. The course is lecture-based with an application of methods and techniques on the practice of environmental assessment in Canada and elsewhere.

Texts:

Required Text:

Hanna, Kevin S., (2015). *Environmental Impact Assessment: Practice and Participation*, 3rd edition. Oxford and New York: Oxford University Press.

Recommended Text:

Noble, Bram F., (2014). *Introduction to Environmental Impact Assessment: A Guide to Principles and Practice*, Third Edition. Oxford: Oxford University Press.

Evaluation:

Assessment of student performance will be as follows;

- Class Participation- 20% (Attendance, Class Discussion and/or Exercises*)
- Mid-term Exam- 30%
- Final Exam- 30%
- EIA Seminars by Canadian Jurisdictions- 20%

**Exercises: Take home assignments, individualized with instructions provided.*

Schedule of Lectures/Readings:

<u>Week</u>	<u>Topic</u>
Week 1	Introduction to Course- Environmental Impact Assessment (EIA) and Management Overview: Environmental Management Nature, Origins and Development of EIA <i>Read Chapter 1, Noble, 2014</i>
Week 2	The Canadian EIA System EIA and Sustainable Development EIA Process- <i>Read Chapter 1, Hanna 2015, Chapter 1, Noble, 2014</i> Legal Basis; Evolution of Federal Environmental Assessment in Canada <i>Read Chapter 2, Noble, 2014</i> The Canadian Federal EIA System <i>Read Chapter 10, Hanna 2015; Chapter 2, Noble, 2014</i>
Week 3	The Science of Assessment and Environmental Impacts Public Participation in Canadian EIA <i>Read Chapters 3-4, Hanna 2015; Chapter 10, Noble, 2014</i>
Week 4	The EIA Practice Consideration of Alternatives, Screening of Actions <i>Read Chapter 4, Noble, 2014</i> Scoping of Impacts <i>Read Chapter 5, Noble, 2014</i> Predicting Environmental Impacts <i>Read Chapter 6, Noble, 2014</i> Managing Project Impacts <i>Read Chapter 7, Noble, 2014</i>
Week 5	Techniques and Methods in EIA Tools Supporting EIA Practice The Practitioners Toolkit and Impact Identification <i>Read Chapter 3, Noble, 2014</i>
Week 6	Thanksgiving and Study Break (<i>October 10-14, 2016</i>) No classes
Week 7	Strategic Environmental Assessment <i>Read Chapter 5, Hanna 2015</i> Aboriginal Engagement and C-Management in Canada's EA <i>Read Chapter 8, Hanna 2015</i>

- Week 8 **Multi-jurisdictional Environmental Assessment**
Read Chapter 9, Hanna 2015
- Mid-Term Examination- October 21, 2016, in-class*
- Week 9 **Seminars in Canadian Jurisdictions**
Seminar: Environmental Assessment in the Yukon
Read Chapter 11, Hanna 2015
Seminar: EIA in Northwest Territories
Read Chapter 12, Hanna 2015
- Week 10 **Seminars in Canadian Jurisdictions**
Seminar: Impact Assessment in Nunavut
Read Chapter 13, Hanna 2015
Seminar: Impact Assessment in British Columbia
Read Chapter 14, Hanna 2015
Seminar: EIA in Alberta
Read Chapter 15, Hanna 2015
- Week 11 **Seminars in Canadian Jurisdictions**
Seminar: Environmental Assessment in Saskatchewan
Read Chapters 16, Hanna 2015
Seminar: Environmental Assessment in Manitoba
Read Chapter 17, Hanna 2015
- Week 12 **Seminars in Canadian Jurisdictions**
Seminar: Ontario Environmental Assessment Act
Read Chapter 18, Hanna 2015
Seminar: EA in Quebec
Read Chapter 19, Hanna 2015
Seminar: EA in the Atlantic
Read Chapter 20, Hanna 2015
- Week 13 **Wrap-up and Integration**
Final Exam date to be announced by the Registrar's Office

Student Responsibilities:

1. Students are encouraged to attend classes regularly and participate in class discussions and learning activities.
2. All students are advised to familiarize themselves with the policies on academic dishonesty such as plagiarism and cheating.
3. Students are strongly encouraged to contact the Instructor during office hours, by e-mail or by telephone, and/or by appointment, if they have questions or study issues.