LAKEHEAD UNIVERSITY

2021-2022

Prof.: Dr. Rosario Turvey Office: OA 3025 Email: rturvey@lakeheadu.ca

**Department of Geography & the Environment** 

Phone: (705)-330-4008, extension 2652 Office Hours: 2:45pm – 3:45 pm Tuesday or by appointment (and by chance)

## **GEOG 3471: Environmental Assessment and Management**

Tuesday and Thursday 10:00-11:30 a.m., OA 2015

#### **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.

#### 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% (Exercises\*)
- Mid-term Exam- 30%
- Final Exam- 30%
- Instrument and Tool Review Paper- 20%

### NOTES:

- 1. \*Exercises: Take home assignments, individualized with instructions provided. The guidelines for the Critique Paper are found in D2L (Content).
- 2. In addition to regular in-person sessions, the class will have access to D2L, e-mail and telephone communications (by appointment).

# Schedule of Lectures/Readings:

Week 1	<u>Topic</u> 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 as revised, 2019 - <i>Read Chapter 10, Hanna 2015; Chapter 2, Noble, 2014</i> - <i>The Impact Assessment Act of Canada, 2019</i>
Week 3	The Science of Assessment and Environmental Impacts Public Participation in Canadian EIA -Read Chapters 3-4, Hanna 2015; Chapter 10, Noble, 2014
Week 4	The EIA Practice Consideration of Alternatives, Screening of Actions -Read Chapter 4, Noble, 2014 Scoping of Impacts -Read Chapter 5, Noble, 2014 Predicting Environmental Impacts -Read Chapter 6, Noble, 2014 Managing Project Impacts -Read Chapter 7, Noble, 2014
Week 5	Techniques and Methods in EIA Tools Supporting EIA Practice The Practitioners Toolkit and Impact Identification -Read Chapter 3, Noble, 2014 Exercise 1 due October 7, 2021 (via D2L)
Week 6	Thanksgiving and Study Break (October 11-15, 2021)
Week 7	Strategic Environmental Assessment -Read Chapter5, Hanna 2015 Aboriginal Engagement and C-Management in Canada's EA -Read Chapter 8, Hanna 2015

Week 8	Mid-Term Examination- October 19, 2021 via D2L Multi-jurisdictional Environmental Assessment -Read Chapter 9, Hanna 2015
Week 9	EIA in Canadian Jurisdictions Environmental Assessment in the Yukon -Read Chapter 11, Hanna 2015 EIA in Northwest Territories -Read Chapter 12, Hanna 2015
Week 10	EIA in Canadian Jurisdictions Impact Assessment in Nunavut -Read Chapter 13, Hanna 2015 Impact Assessment in British Columbia -Read Chapter 14, Hanna 2015 EIA in Alberta -Read Chapter 15, Hanna 2015 Exercise 2 due Nov 9, 2021 via D2L
Week 11	EIA in Canadian Jurisdictions Environmental Assessment in Saskatchewan -Read Chapters 16, Hanna 2015 Environmental Assessment in Manitoba -Read Chapter 17, Hanna 2015
Week 12	EIA in Canadian Jurisdictions Ontario Environmental Assessment Act - <i>Read Chapter 18, Hanna 2015</i> EA in Quebec - <i>Read Chapter 19, Hanna 2015</i> EA in the Atlantic - <i>Read Chapter 20, Hanna 2015</i>
Week 13	Wrap-up and Integration

Final Exam date to be announced by the Registrar's Office Due: Instrument and Tool Review Paper, December 6, 2021

# **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.