

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

---

Monday and Wednesday 1:00-2:30 p.m., OA 2018

### **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	<b>Introduction to Course-</b> Environmental Impact Assessment (EIA) and Management Overview: Environmental Management Nature, Origins and Development of EIA <i>-Read Chapter 1, Noble, 2014</i>
Week 2	<b>The Canadian EIA System</b> 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	<b>The Science of Assessment and Environmental Impacts</b> <b>Public Participation in Canadian EIA</b> <i>-Read Chapters 3-4, Hanna 2015; Chapter 10, Noble, 2014</i>
Week 4	<b>The EIA Practice</b> 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	<b>Techniques and Methods in EIA</b> Tools Supporting EIA Practice The Practitioners Toolkit and Impact Identification <i>-Read Chapter 3, Noble, 2014</i>
Week 6	<i>Thanksgiving and Study Break (October 8-12, 2018)</i> No classes
Week 7	<b>Strategic Environmental Assessment</b> <i>-Read Chapter 5, Hanna 2015</i>  <b>Aboriginal Engagement and C-Management in Canada's EA</b> <i>-Read Chapter 8, Hanna 2015</i>

- Week 8                    **Multi-jurisdictional Environmental Assessment**  
-Read Chapter 9, Hanna 2015  
*Mid-Term Examination- October 17, 2018, 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.