

GEOG 3471: Environmental Assessment and Management

Tuesday and Thursday 4:00-5:30 p.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.

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	Overview: Techniques and Methods in EIA Tools Supporting EIA Practice The Practitioners Toolkit and Impact Identification <i>-Read Chapter 3, Noble, 2014</i>
Week 6	Aboriginal Engagement and Co-Management in Canada's EA <i>-Read Chapter 8, Hanna</i>
Week 7	Winter Study Break (Feb 17-21, 2020) NO CLASSES
Week 8	Multi-jurisdictional Environmental Assessment <i>-Read Chapter 9, Hanna 2015</i>

*-Readings on EA for Canadian Jurisdictions Circulated by Instructor
References: Chapters 10-20, Hanna 2015*

Mid-Term Examination- Thursday, February 27, 2020, in class

Week 9-12 **Seminars on EA Techniques and Procedures**
Team Schedules to be announced before Study Break

Week 13 **Wrap-up and Course Evaluation**
Last day of Class for Geog 3471: April 2, 2020

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.