

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 311

Number of Credits: 4 [Course credit policy \(105\)](#)

Course Full Title: Global Resources and the Environment

Course Short Title:

Faculty: Faculty of Social Sciences

Department (or program if no department) Geography and the Environment

Calendar Description:

This course investigates the relationships between communities, markets, and the environment in the use and management of natural resources. Consideration is given to how global markets influence spatial patterns of energy, mineral, forest, fish, and agricultural development; the use and overuse of renewable and common pool resources; and the challenges firms and communities face in incorporating sustainable planning principles into resource management. This course utilizes case studies of resource-dependent and Indigenous communities and regions in Canada and the U.S., as well as global examples of the changing nature of the industrial production of natural resources.

Prerequisites (or NONE): One of the following: GEOG 211, GEOG 240, GEOG 242, GEOG 257/CMNS 257, BIO 210, ECON 100, or ECON 101.

Corequisites (if applicable, or NONE): None.

Pre/corequisites (if applicable, or NONE): None.

Equivalent Courses (cannot be taken for additional credit)

Former course code/number:

Cross-listed with:

Equivalent course(s):

Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit

Transfer credit already exists: Yes No

Transfer credit requested (OReg to submit to BCCAT):

Yes No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: Yes No

To find out how this course transfers, see bctransferguide.ca.

Total Hours: 60

Typical structure of instructional hours:

Lecture hours	20
Seminars/tutorials/workshops	35
Laboratory hours	
Field experience hours	5
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	60

Special Topics

Will the course be offered with different topics?

Yes No

If yes,

Different lettered courses may be taken for credit:

No Yes, repeat(s) Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 28

Expected frequency of course offerings (every semester, annually, etc.): Annually

Department / Program Head or Director: Michelle Rhodes

Date approved: March 2014

Campus-Wide Consultation (CWC)

Date of posting: March 28, 2014

Faculty Council approval

Date approved: May 2014

Dean/Associate VP: Jaqueline Nolte

Date approved: May 2014

Undergraduate Education Committee (UEC) approval

Date of meeting: June 20, 2014

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Apply concepts and theories from economics and economic geography to the study of how a natural resource is produced and managed.
2. Describe, contrast, and critically analyze the management of commons and non-commons resources.
3. Provide argument for integrative, interdisciplinary, and multi-scalar approaches to problem-solving in resource management.
4. Identify flows of resource use and consumption for particular commodities.
5. Identify appropriate academic and non-academic sources for information on topics within resource geography, and how to critically utilize these sources in a research project.
6. Clearly convey the findings of one's research on a resource industry to a general audience.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

The format of the course may include lectures, assigned readings, discussion groups, oral presentations, and field trips. Particular emphasis is placed on student participation in seminars, group presentations, and field trips. Audio-visual materials and case studies will be used to support lecture material.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (also see Supplemental Texts and Resource Materials form)

<u>Author Surname</u> <u>Initials</u>	<u>Title (article, book, journal, etc.)</u>	<u>Current Ed.</u>	<u>Place of Publication</u>	<u>Year Published</u>
1. Armitage, Derek	Adaptive capacity and environmental governance		London	2010
2. Hackett, S.	Environmental and Natural Resource Economics			2005
3. Hayter, R.	Flexible Crossroads: The Restructuring of BC's Forest Economy		UBC, Vancouver	2000
4. Kurlansky, M.	Cod: A Biography of a Fish that Changed the World			1998
5. Ostrom, E et al	Drama of the Commons. National Academe Press			2002

Required Additional Supplies and Materials (Eg. Software, hardware, tools, specialized clothing)

Field trip fee may be required.

Typical Evaluation Methods and Weighting

Final exam:	25%	Assignments:	%	Midterm exam:	%	Practicum:	%
Quizzes/tests:	%	Lab work:	%	Field experience:	%	Shop work:	%
Exams (2):	35%	Reports (2):	30%	Discussion:	10%	Total:	100%

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

Typical Course Content and Topics

Week 1	Introduction to course: How are natural resources and resource types identified? Ecosystem and resource services;
Weeks 2-3	Key Ideas in the Economic Geography of Natural Resources; The problem of scarcity and limits to growth; Sustainable Development
Weeks 3-4	Neoclassical Approaches to Resource Development and Sustainability in Air and Water: Tradable Permits and Environmental Taxes; Ecological Modernization, decentralization, and other theories of institutional change
Week 5	Exam 1; Mining and Energy: Can Mining be 'Sustainable'? Planning for Hard Rock Mining and Mine Recovery
Week 6	Energy: Industrial Inertia, Scarcity, and Available Options for the Future—Part 1: Renewables
Week 7	Energy: Industrial Inertia, Scarcity, and Available Options for the Future—Part 2: Fossil Fuels and Part 3: Mountaintop Removal;
Week 8	The Corn Economy: Agriculture, Agribusiness, and Food Provision on a Global Scale
Week 9	Exam 2; Commons Theory and Renewable Resource Development
Week 10	Managing and Privatizing the Commons in Fisheries
Week 11	Forest Management in BC: Models for growth and sustainability
Week 12	Co-Management in Forest and Ocean Resources
Week 13	Participatory (Action) Research and Resource Management on the Ground
Week 14	Final projects and exam

Supplemental Texts and Resource Materials Form

For use with the Official Undergraduate Course Outline Form, if more space is required for the **Typical Text(s) and Resource Materials** field.

	<u>Author (surname, initials)</u>	<u>Title (article, book, journal, etc.)</u>	<u>Current edition</u>	<u>Publisher</u>	<u>Year</u>
1.	Pereira, L., et al.	Coping with Water Scarcity: Addressing the Challenges	<input type="checkbox"/>	Springer	2009
2.	Wilmsen, C	Partnerships for Empowerment: Participatory Research for Community-Based Natural Resource Management	<input type="checkbox"/>	Earthscan Publications Lmtd	2008
3.	Allison, E. JH.	Big laws, small catches: Global ocean governance and the fisheries crisis	<input type="checkbox"/>	Journal of International Development	2001
4.	Armitage, D.R.	Community-based narwhal management in Nunavut, Canada: Change, uncertainty and adaptation	<input type="checkbox"/>	Society and Natural Resources	2005
5.	Ballard, H. and Huntsinger, L.	Salal Harvester Local Ecological Knowledge, Harvest Practices and Understory Management on the Olympic Peninsula, Washington	<input type="checkbox"/>	Human Ecology	2006
6.	Bannon, I. and Collier, P.	Natural Resources and Violent Conflict	<input type="checkbox"/>	Washington, D.C.: The World Bank	2003
7.	Bell, S.E. and York, R.	Community Economic Identity: The Coal Industry and Ideology Construction in West Virginia	<input type="checkbox"/>	Rural Sociology	2010
8.	Brewer, J.	Don't Fence Me In: Boundaries, policy, and deliberation in Maine's Lobster Commons	<input type="checkbox"/>	Association of American Geographers Annals	2012
9.	Bridge, G.	Contested terrain: Mining and the environment	<input type="checkbox"/>	Annual Review of Environment & Resources	2004
10.		Mapping the Bonanza: Geographies of Mining Investment in the Era of Neoliberal Reform	<input type="checkbox"/>	Professional Geographer	2004
11.	Delpeuch, F., et al.	"Welcome to Wal-Mart" (Chapter 5), from Globesity: A Planet out of Control?	<input type="checkbox"/>	Earthscan	2010
12.	Dusyk, N.	Downstream Effects of a Hybrid Forum: The Case of the Site C Hydroelectric Dam in British Columbia, Canada	<input type="checkbox"/>	Association of American Geographers Annals	2011
13.	Gardner, R., Ostrom, E., and Walker, J.	The Nature of Common-Pool Resource Problems	<input type="checkbox"/>	Rationality and Society	1990
14.	Gibbs, D.	Ecological Modernization, Regional Economic Development and Regional Development Agencies	<input type="checkbox"/>	Geoforum	2000
15.	Goldemberg, J.	Energy Choices Toward a Sustainable Future	<input type="checkbox"/>	Environment	2007
16.		Morality, Space, and the Power of Wind-Energy Landscapes	<input type="checkbox"/>	Geographical Review	2000
17.	Grima, A.P., Horton, S. and Kant, S.	Introduction: Natural capital, poverty and development	<input type="checkbox"/>	Environment, Development and Sustainability	2003
18.	Hardin, G	The Tragedy of the Commons	<input type="checkbox"/>	Science	1968
19.	Hilson, G. and Basu, A.	Devising Indicators of Sustainable Development for the Mining and Minerals Industry: An analysis of critical background issues	<input type="checkbox"/>	International Journal of Sustainable Development and World Ecology	2003
20.	Huber, M	Enforcing Scarcity: Oil, Violence, and the Making of the Market	<input type="checkbox"/>	Association of American Geographers Annals	2011
21.	Joyce, A. and Satterfield, T.	Shellfish Aquaculture and First Nations' Sovereignty: The quest for sustainable development in contested sea space	<input type="checkbox"/>	Natural Resources Forum	2010

22. Larsen, S.	Place identity in a resource-dependent area of northern British Columbia	<input type="checkbox"/>	Association of American Geographers, Annals	2004
23. McCarthy, J.	Neoliberalism and the politics of alternatives: Community forestry in British Columbia	<input type="checkbox"/>	Association of American Geographers Annals	2006
24. McFarquhar, N.	African farmers displaced as investors move in	<input type="checkbox"/>	The New York Times	2010
25. Pasqualetti, M.	The Alberta Oil Sands from Both Sides of the Border	<input type="checkbox"/>	Geographical Review	2009
26. Rees, W.	Human nature, eco-footprints, and environmental justice	<input type="checkbox"/>	Local Environment	2008
27. Rice, A	Is there such a thing as Agro-Imperialism?	<input type="checkbox"/>	The New York Times Magazine	2009
28. Walker, R.	The Impact of Brazilian Biofuel Production in Amazonia	<input type="checkbox"/>	Association of American Geographers Annals	2011
29. Woods, B., and Gordon, J.	Mountain Top Removal and Job Creation: Exploring the relationship using spatial regression	<input type="checkbox"/>	Association of American Geographers Annals	2011
30. Fox, J.	Film: Gasland	<input type="checkbox"/>	HBO Documentary Films	2011
31. Yale University	Film: Leveling Appalachia	<input type="checkbox"/>	Environment 360 series	2009