

## Environment Alteration - Fall 2012

10-11:20 Tuesday and Thursday, 125 LLCN

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Readings and assignments are available from the course website: [blackboard.uoregon.edu](http://blackboard.uoregon.edu)

**Grading** - (late work 20% off per day)

**Participation** (5%) - Students are expected to attend all classes and read course materials prior to each class. Participation in class discussions and in-class exercises is a critical component of the course.

**Quizzes/Take-Home Assignments/Group Work** (45%) - There will be both in-class and take home quizzes. Most will focus on course readings and lectures. Some quizzes will be longer and take-home, and will require students to find material relevant to the course topics.

**Research Paper** (30%) [*Proposal* Week 5, *Annotated Bibliography* Week 8, *Narrative Outline* (unformatted) Week 9, *Final Draft* (formatted) Week 11] - Students will complete a 5-7 page paper (not including figures, illustrations, and bibliography) on an instructor-approved topic or question, with at least 5 properly-cited bibliographic sources and notes. The paper should analyze environmental alterations of a specific site, describing the biophysical, social, political, cultural, and economic dimensions of the landscape change. A proposal, annotated bibliography, and rough draft of the paper are included in the overall grading of the paper [proposal (5 pts), annotated bibliography (10 pts), draft (20pts), full paper (65 pts)]. The paper is due Week 11, at the time of the scheduled final (10:15 Friday, December 7).

**Midterm Project** (20%) [*Proposal* Week 3, (*Virtual*) *Presentation* Week 5/6/7 **A Picture and 1000 words**] - Midterm Project will focus on a single visual image or short series of images (photograph, map, chart, satellite image etc.) which depicts a "story" about environmental alteration (e.g. mining operation and its connection to the economy, brief overview of its environmental and cultural effects). Projects should illustrate the physical alterations (existent or potential) of a particular activity or project and discuss the social, political, cultural, and/or economic ramifications. Historical photos are fine.

Students will research an environmental issue and create a short poster presentation of their findings . Graduate students will make presentations to the entire class, Undergraduate students will present in small groups based on similar issues, time permitting.

*Suggested sources for images:*

- Your own pictures
- Online image search engines....
- Library of Congress
- University of Oregon Map Library (air photos), Library (historic Oregon photos)...
- Newspapers / articles in other popular media

**Schedule** - Readings are listed for the day they should be completed. At times, students will be asked to find their own readings. Be prepared for unannounced quizzes on the required readings and lectures throughout the term. "Suggested" readings are required for graduate students, who should be prepared to discuss them in class or in quizzes.

Date	Lecture	Reading	Due
Tu: 9-25	Introduction / Name Quiz		
Th: 9-27	Overview - Global environment alteration and human migration/ expansion	<p>Vitousek et al., 1997. "Human Domination of Earth's Ecosystems" Science, 25 July 1997, 277 (5325): 494-499.[PDF on BB]  <a href="http://www.sciencemag.org/content/277/5325/494.full">http://www.sciencemag.org/content/277/5325/494.full</a></p> <p>Suggested: Marsh, George Perkins (1870). "Man and Nature." Organization and Environment 2002(15): 170-177.[PDFs of article and introduction on BB]</p> <p><a href="#">Man and Nature: or Physical Geography as Modified by Human Action</a> [on Google Books]</p>	News Flash news story title and full link from your favorite biome/ region - turn in to Blackboard folder
Tu: 10-2	Culture and Environmental Change / Wildlife	<p>Orland, 2004. "Chapter 1: Roots of the modern environmental dilemma: A brief history of the relationship between humans and wildlife" in Essays on Wildlife Conservation, Moyle and Orland, eds. (<a href="#">Link</a>)</p> <p>Living Planet Report 2012. WWF.  <a href="http://m.panda.org/about_our_earth/all_publications/living_planet_report/2012_lpr/">http://m.panda.org/about_our_earth/all_publications/living_planet_report/2012_lpr/</a>  <a href="http://m.panda.org/about_our_earth/all_publications/living_planet_report/index.cfm">http://m.panda.org/about_our_earth/all_publications/living_planet_report/index.cfm</a></p> <p><b>Suggested:</b> Moyle and Orland. 2004. "Chapter 2: A HISTORY OF WILDLIFE IN NORTH AMERICA" in Essays on Wildlife Conservation, Moyle and Orland, eds. (<a href="#">Link</a>)</p>	Choose a biome and region for media take-home quiz

Th: 10-4	Agriculture	<p>Balter, 2007. "Seeking Agriculture's Ancient Roots" Science 29 June 2007: 1830-1835. <a href="#">[link]</a> and pdf on BB]</p> <p>Denevan, 1992. "The Pristine Myth: The Landscape of the Americas in 1492" Annals of the Association of American Geographers 82(3):369-385.</p> <p>Kareiva, 2007. "Domesticated Nature: Shaping Landscapes and Ecosystems for Human Welfare" Science 29 June 2007: 1866-1869. <a href="#">[link]</a> or PDF on BB]</p>	
Tu: 10-9	Deforestation	<p>Williams, Michael. 2000. Dark ages and dark areas: global deforestation in the deep past. Journal of Historical Geography 26(1):28-46. <a href="#">[PDF on BB]</a></p> <p><b>Suggested:</b> Philip Hirsch, 2001. Underlying Causes of Deforestation in the Mekong Region. Proceedings of IGES 3rd International Workshop on Forest Conservation in the Asia and Pacific Region, edited by M. Inoue and H. Isozaki. Kanagawa: Institute for Global Environmental Strategies. <a href="#">[link]</a> or PDF on BB]</p>	<p>Choose a biome and region for online video assignment</p> <p>Turn in media quiz</p>
Th: 10-11	Soils	<p>Montgomery, David. 2007. "Soil Erosion and Agricultural Sustainability". PNAS, 104(33): 13268-13272. <a href="#">[link]</a> or PDF on BB]</p> <p>Suggested: Williams, Michael. 1998. "The End of Modern History?". Geographical Review, 88(2): 275-300. <a href="#">[PDF on BB]</a></p>	
Tu: 10-16	Deforestation and the Commons	<p>Dietz, Thomas, Elinor Ostrom, and Paul C. Stern. 2003. The Struggle to Govern the Commons. Science 302: 1907-1912.</p> <p>Suggested: Robbins, Paul. 1998. Authority and Environment: Institutional Landscapes in Rajasthan, India. Annals of the Association of American Geographers, 88(3): 410-435.</p>	<p>Midterm image proposal Due</p> <p>Turn in online video quiz</p>

Th: 10-18	<i>In-Class Test</i>		Paper Proposal Due
Tu: 10-23	Grad Midterm Presentations Undergraduate small group presentations	Graduate presentations followed by of their image; each student will turn in a summary of the presentations in their group	Midterm Image / Paper Due
Th: 10-25	Freshwater Ecosystems	David M. Rosenberg, Patrick McCully, and Catherine M. Pringle. 2000. Global-Scale Environmental Effects of Hydrological Alterations: Introduction. <i>BioScience</i> 50(9): 746-751. Nilsson, Christer and Kajsa Berggren. Alterations of Riparian Ecosystems Caused by River Regulation. <i>BioScience</i> 50(9): 783-792.  Jackson et al. 2001. Historical Overfishing and the Recent Collapse of Coastal Ecosystems. <i>Science</i> 293:629-638. Student picked media article(s)	
Tu: 10-30	Ocean Ecosystems  Institutions and Environment Change	Grace Carswell. 2003. Continuities in Environmental Narratives: The Case of Kabale, Uganda, 1930 -2000. <i>Environment and History</i> 9(2003): 3-29. Hirsch, Phillip. 2001. Globalization, Regionalization, and Local Voices: The Asian Development Bank and rescaled politics of environment in the Mekong Region. <i>Singapore Journal of Tropical Geography</i> 22(3):237-251. Suggested: Hannon, Gina E., Stefan Wastegard, Emily Bradshaw and Richard H.W. Bradshaw. 2001. Human Impact and Landscape Degradation on the Faroe Islands. <i>Biology And Environment: Proceedings Of The Royal Irish Academy</i> , 101b(1-2): 129-139.	

Th: 11-1	Conflict and Environment	<p>Le Billon, Philippe, 2001. The political ecology of war: natural resources and armed conflicts. <i>Political Geography</i> 20(2001): 561-584.</p> <p>Draulans, Dirk and Ellen Van Krunckelsven, 2002. The impact of war on forest areas in the Democratic Republic of Congo. <i>Oryx</i> 36(1): 35-40.</p> <p>Suggested: Dudley, Joseph, et al. 2002. Effects of War and Civil Strife on Wildlife and Wildlife Habitats, <i>Conservation Biology</i> 16(2): 319-329.</p>	
Tu: 11-6	Climate Change	Zhang, David et al., 2006. Climatic Change, Wars and Dynastic Cycles In China Over The Last Millennium. <i>Climatic Change</i> 2006(76): 459-477.	
Th: 11-8		Hans von Storch and Nico Stehr. Climate change in perspective	
Tu: 11-13	Urbanization and Suburbanization	Robert Bruegmann, 2006. How Sprawl Got a Bad Name, from Attack of the Snobs excerpt by The American Enterprise Online, June 2006. [ <a href="http://www.taemag.com/issues/articleID.19175/article_detail.asp">http://www.taemag.com/issues/articleID.19175/article_detail.asp</a> ]	
Th: 11-15	Invasive Species	McNeely, Jeffrey A. 2004. Strangers in Our Midst: The Problem of Invasive Alien Species. <i>Environment</i> 46 (6):16-31.	Draft of Final Paper Due
Tu: 11-20	Water and Food	Rosegrant, Mark W., Ximing Cai, and Sarah A. Cline. 2003. Will the World Run Dry?: Global Water and Food Security. <i>Environment</i> 45 (7):24-36. Suggested: Homer-Dixon, Thomas. 1994. Environmental Scarcity and Violent Conflict: Evidence from Cases. <i>International Security</i> 19(1): 5-40.	
Th: 11-22	No Class	<b><i>Thanksgiving</i></b>	

Tu: 11-27	The End of the World	<p>Burger, Joanna, and Michael Gochfeld. 1998. The Tragedy of the Commons 30 Years Later. <i>Environment</i> 40 (10):4-13; 26-27.</p> <p>Pimm, Stuart L. et al. 2001. Can We Defy Nature's End? <i>Science</i> 293(21 Sep. 2001): 2207-2208.</p> <p>Ludwig, Donald et al. 1993. Uncertainty, Resource Exploitation and Conservation: Lessons from History. <i>Science</i> 260(2) April 1993.</p>	
Th: 11-29	Graduate Presentations	in-class quiz	
Fr: 12-3	Final Paper Due	by <b>noon</b> on Friday, Dec. 3	