

COURSE IMPLEMENTATION DATE:	January 2002
COURSE REVISED IMPLEMENTATION DATE:	January 2008
COURSE TO BE REVIEWED:	November 2011
(Four years after UPAC final approval date)	(MONTH YEAR)

**OFFICIAL COURSE OUTLINE INFORMATION**

Students are advised to keep course outlines in personal files for future use.

Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT:	<b>Geography</b>	
<b>GEOG 311</b>		<b>4</b>
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	<b>Global Resources and the Environment</b>	
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

This course provides an investigation into the relationship between humans and their environment in terms of resources use and exploitation. Consideration is given to regional and global natural resource flows; models of resource economics, extraction, and consumption; resource conflicts; the impacts of resource use on environmental integrity; and on the introduction of procedures, techniques, and rationales for managing environmental resources.

PREREQUISITES: Any two of: GEOG 201, GEOG 202, GEOG 211, GEOG 240, GEOG 242, BIO 210, or ECON 361  
COREQUISITES: **None**

SYNONYMOUS COURSE(S)	<b>SERVICE COURSE TO:</b>
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: _____ for further credit. (Course #)	_____

TOTAL HOURS PER TERM:	<b>60</b>	TRAINING DAY-BASED INSTRUCTION
<b>STRUCTURE OF HOURS:</b>		LENGTH OF COURSE: _____
Lectures:	25 Hrs	HOURS PER DAY: _____
Seminar:	25 Hrs	
Laboratory:	Hrs	
Field Experience:	10 Hrs	
Student Directed Learning:	Hrs	
Other (Specify):	Hrs	

MAXIMUM ENROLLMENT:	<b>28</b>
EXPECTED FREQUENCY OF COURSE OFFERINGS:	<b>Annually</b>
<b>WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**AUTHORIZATION SIGNATURES:**

Course Designer(s): _____ Dr. Michelle Rhodes	Chairperson: _____ Maira Kloster ( <i>Curriculum Committee</i> )
Department Head: _____ Dr. Ken Brealey	Dean: _____ Dr. Eric Davis
UPAC Approval in Principle Date: _____	UPAC Final Approval Date: Nov. 23, 2007

**LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:**

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

1. Define and apply the concepts of environment and resources, particularly from geographic perspectives;
2. Survey the distribution and use of resources;
3. Examine flows of resource use and consumption, including those marked by uncertainty and conflict;
4. Demonstrate the need for integrative, interdisciplinary, and critical approaches to problem-solving in resource management;
5. Identify key 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 to a general audience.

**METHODS:**

The format of the course may include lectures, assigned readings, discussion groups, oral presentations, field trips, and field and laboratory analyses, with specific course exercises to be determined by individual instructors. Particular emphasis is placed on student participation in seminars, group presentations, and field trips. The field trips are intended to provide opportunities for students to make accurate field observations for producing field reports. Audio-visual materials and case studies will be used to support lecture material.

**PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):**

Credit can be awarded for this course through PLAR (Please check:)  Yes  No

**METHODS OF OBTAINING PLAR:**

Application to the department: Course challenge, presentation/assessment of portfolio.

**TEXTBOOKS, REFERENCES, MATERIALS:**

[Textbook selection varies by instructor. An example of texts for this course might be:]

Course reader, including all or part of some of the following sources:

- Allen, C.M. 2005. *An Industrial Geography of Cocaine*. Routledge.
- Allison, E. JH. 2001. Big laws, small catches: Global ocean governance and the fisheries crisis. *Journal of International Development* 13: 933-950.
- Amery, H. 2002. Water wars in the Middle East: A looming threat. *The Geographical Journal* 168 (4): 313-323.
- Aning, E.K. 2003. Regulating illicit trade in natural resources: The role of regional actors in West Africa. *Review of African Political Economy* 95: 99-107.
- Armitage, D.R. 2005. Community-based narwhal management in Nunavut, Canada: Change, uncertainty, and adaptation. *Society and Natural Resources* 18: 715-31.
- Bannon, I. and P. Collier. 2003. *Natural Resources and Violent Conflict*. Washington, D.C.: The World Bank.
- Dauvergne, P. 2001. *Loggers and Degradation in the Asia-Pacific: Corporations and environmental management*. Cambridge University Press.
- Giordano, Meredith, Mark Giordano, and A. Wolf. 2002. The geography of water conflict and cooperation: Internal pressures and international manifestations. *The Geographical Journal* 168 (4): 293-312.
- Grima, A.P., S. Horton, and S. Kant. 2003. Introduction: Natural capital, poverty and development. *Environment, Development and Sustainability* 5: 297-314.
- Hall, C.A.S. 2000. *Quantifying Sustainable Development: The Future of Tropical Economies*. Academic Press
- Hardin, G. 1968. The Tragedy of the Commons. *Science* 162 (3859): 1243-48.
- Klare, M. 2001. *Resource Wars*. NY: Henry Holt and Co.
- Kura, Y., C. Revenga, E. Hoshino, and G. Mock. 2004. Fishing for answers: Making sense of the global fisheries crisis. World Resources Institute. Available on-line at [www.wri.org](http://www.wri.org).
- Kurlansky, Mark. 1997. *Cod: A Biography of the fish that changed the world*. Penguin Books.
- Larsen, S. 2004. Place identity in a resource-dependent area of northern British Columbia. *Association of American Geographers, Annals* 94 (1): 941-960.
- McCarthy, J. 2006. Neoliberalism and the politics of alternatives: Community forestry in British Columbia. *Association of American Geographers, Annals* 96 (1): 84-104.
- Osorio, L.A.R., M.O. Lobato, and X.A. del Castillo. 2005. Debates on sustainable development: Towards a holistic view of reality. *Environment, Development, and Sustainability* 7: 501-518.
- Pimentel, D. 2006. Soil erosion: A food and environmental threat. *Environment, Development, and Sustainability* 8: 119-37.
- References:
- Rengert, G. F. 1998. *The Geography of Illegal Drugs*. Boulder, CO: Westview Press.
- Silva, E. Selling Sustainable Development and Shortchanging Social Ecology in Costa Rican Forest Policy. *Latin American Politics and Society* 45 (3): 93-127.

Uitto, J.I. and A.T. Wolf. 2002. Water wars? Geographical perspectives. *The Geographical Journal* 168 (4): 289-292.  
World Resources Institute. 2000-2001. *People and Ecosystems: The Fraying Web of Life*.

Additional or supporting sources may be drawn from:

- Bocking, S. (ed.), 2000. *Biodiversity in Canada: An Introduction to Environmental Studies*. Peterborough: Broadview Press.
- Bridge, G. 2004. Contest terrain: Mining and the environment. *Annual Review of Environment & Resources* 29 (1): 205-59.
- Briggs, David and Courtney, Frank. 1987. *Agriculture and Environment: The Physical Geography of Temperate Agricultural Systems*. London: Longman
- Brook, D. 2001. The ongoing tragedy of the commons. *The Social Science Journal* 38: 611-616.
- Bryan, Rorke. 1973. *Much is Taken, Much Remains: Canadian Issues in Environmental Conservation*. North Scituate, Mass: Duxbury Press
- Coull, James R. 1993. *World Fisheries Resources*. New York: Routledge
- Dearden, P. and B. Mitchell. 1998. *Environmental Change and Challenge: A Canadian Perspective*, Toronto: Oxford University Press.
- Dwivedi, O.P., P. Kyba, P. & R. Tiessen Stoett. 2001. *Sustainable Development and Canada: National and International Perspectives*. Peterborough: Broadview Press
- Fahn, J.D. 2004. *A Land on Fire: The environmental consequences of the Southeast Asian boom*. Boulder: Westview Press.
- Ferguson, I.S. 1996. *Sustainable Forest Management*. New York: Oxford University Press
- Gibson, R. M. and J. B. Haseman. 2003. Prospects for controlling narcotics production and trafficking in Myanmar. *Contemporary Southeast Asia* 25 (1) 2003, 1-19.
- Glaeser, Bernhard. 1995. *Environment, Development, Agriculture: Integrated Policy Through Human Ecology*. London: UCL Press
- Gleick, P.H. 2000. *World's Water 2000-2001. The Biennial Report on Freshwater Resources*. Washington: Island Press
- Goudie, Andrew. 1986. *The Human Impact on the Natural Environment*. Cambridge: MIT Press
- Haddadin, M. 2002. Water in the Middle East peace process. *The Geographical Journal* 168 (4): 324-340.
- Hauer, F.R. 1998. *Methods in Stream Ecology*. New York: Academic Press
- Healey, M. (ed.) 1999. *Seeking Sustainability in the Lower Fraser Basin: Issues and Choices*. Vancouver: UBC Institute for Resources and Environment, Westwater Research
- Kates, Robert W. and Burton, Ian (eds.). 1986. *Geography, Resources and Environment*, 2 vols., Chicago: University of Chicago Press
- Keiner, M. 2004. Re-emphasizing sustainable development—the concept of 'Evolutionability'. *Environment, Development, and Sustainability* 6: 379-392.
- Kura, Y., C. Revenga, E. Hoshino, and G. Mock. 2004. *Fishing for answers: Making sense of the global fisheries crisis*. World Resources Institute. Available on-line at [www.wri.org](http://www.wri.org).
- Kurlansky, Mark. 1997. *Cod: A Biography of the fish that changed the world*. Penguin Books.
- Larsen, S. 2004. Place identity in a resource-dependent area of northern British Columbia. *Association of American Geographers, Annals* 94 (1): 941-960.
- McCarthy, J. 2006. Neoliberalism and the politics of alternatives: Community forestry in British Columbia. *Association of American Geographers, Annals* 96 (1): 84-104.
- Mitchell, B. 1995. *Resource and Environmental Management in Canada*, Toronto: Oxford University Press.
- Mitchell, B. 1997. *Resource and Environmental Management*. Reading, MA: Addison Wesley Longman
- Newson, Malcolm David. 1997. *Land, Water and Development: Sustainable Management of River Basin Systems*, 2nd ed., New York: Routledge
- O'Riordan, T. 1981. *Environmentalism*. London: Pion
- (ed). 1995. *Environmental Science for Environmental Management*. New York: Wiley
- (ed). 1995. *Perceiving Environmental Risks*. London: Academic
- Orosio, L.A.R., M.O. Lobato, and X.A. del Castillo. 2005. Debates on sustainable development: Towards a holistic view of reality. *Environment, Development, and Sustainability* 7: 501-518.
- Palm, Risa I. 1990. *Natural Hazards: An Integrative Framework for Research and Planning*. Baltimore: John Hopkins University Press
- Pimentel, D. 2006. Soil erosion: A food and environmental threat. *Environment, Development, and Sustainability* 8: 119-37.
- References:
- Rengert, G. F. 1998. *The Geography of Illegal Drugs*. Boulder, CO: Westview Press.
- Saarinen, Thomas. 1969. *Perception of Environment*. Resource Paper No. 5, Washington: Association of American Geographers
- Seager, Joni (ed.) 1990. *The State of the Earth Atlas*. New York: Simon and Shuster
- Sedjo, Roger A. 1998. *Sustainability of Temperate Forests*. Washington DC: Resources for the Future
- Silva, E. Selling Sustainable Development and Shortchanging Social Ecology in Costa Rican Forest Policy. *Latin American Politics and Society* 45 (3): 93-127.
- Simmons, I.G. 1989. *Changing the Face of the Earth: Culture, Environment, History*. London: Blackwell
- Thomas, William L. Jr. (ed.). 1956. *Man's Role in changing the Face of the Earth*. Chicago: University of Chicago Press
- Tietenberg, T. 2000. *Environmental and Natural Resource Economics*, 5th ed. Reading, MA: Addison Wesley Longman
- Turner, B.L. et al. 1990. *The Earth as Transformed by Human Action*. Cambridge: Cambridge University Press
- Uitto, J.I. and A.T. Wolf. 2002. Water wars? Geographical perspectives: introduction. *The Geographical Journal* 168 (4): 289-292.
- UNFAO. 1994. *New Directions for Agriculture, Forestry and Fisheries: Strategies for Sustainable Agriculture and Rural Development*. Rome: Food and Agriculture Organization of the United Nations
- Wagner, Philip. 1960. *The Human Use of the Earth*. New York: Free Press
- World Resources Institute. 2000-2001. *People and Ecosystems: The Fraying Web of Life*.

## **SUPPLIES / MATERIALS:**

Courses in Geography may have mandatory field trips with additional fees. Details are available on course outlines distributed in class.

## **STUDENT EVALUATION:**

[An example of student evaluation for this course might be:]

Midterm:	15%
Final exam:	25%
Reading presentations (2) and discussion:	10%
Research assignment (individual):	20%
Research presentation (group):	20%
Field trip report	10%

## **COURSE CONTENT:**

[Course content varies by instructor. An example of course content might be:]

Sample outline 1:

Week 1:	Introduction Concepts of Resources and Environment Geographical Approaches
Week 2:	Resource Management
Week 3:	The Nature of Resources
Week 4:	Renewable and Non-renewable Resources
Week 5:	Forestry Management: Problems and Issues
Week 6:	Forestry Management: Solutions
Week 7:	Fisheries Management: Problems and Issues
Week 8:	Fisheries Management: Solutions
Week 9:	The Nature of Flow Resources
Week 10:	Flow Resource Management Issues
Week 11:	Agricultural and Land Management Problems and Issues
Week 12:	Biodiversity and Integrated Land Management Issues
Week 13:	Conclusions, New Directions in Resource Management

Sample outline 2:

Week 1:	Introduction to course; Defining natural resources and resource types; Ecosystem and resource services; Sustainable development as a framework
Week 2:	Introductory micro and macro-economic theory as applied to resource development Theories of resource development: From 'Tragedy of the Commons' to SD
Week 3:	Resource ownership, development, management and tenure in renewable resources; Tragedy of the Commons in the cod fishery
Week 4:	Resource cycles in 'renewable' resource industries: forestry and fishing Community sustainability in rural Canada
Week 5:	Manipulating Mother Nature: Technologies, food production, and ecological costs: Focus on fisheries and agriculture
Week 6:	Sustainability in Non-Renewable Resource Development...an oxymoron?
Week 7:	Energy
Week 8:	Biodiversity and flow resources
Week 9:	Resource Access and Conflict: Focus on Water
Week 10:	Economic Development and Natural Resource Use in LDCs
Week 11:	Asia and China's industrial resource machine
Week 12:	Flows in Illicit Natural Resource Production: Drugs, community and political (in)stability
Week 13:	Flows in Illicit Natural Resource Production: Diamonds, wildlife smuggling, timber, etc., with a focus on Africa