

COURSE IMPLEMENTATION DATE:[January 2002]
 COURSE REVISED IMPLEMENTATION DATE:[]
 COURSE TO BE REVIEWED:[January 2006]
 (Four years after implementation date)

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 material will vary
 - see course syllabus available from instructor

FACULTY/DEPARTMENT: GEOGRAPHY

GEOG 311 4
 COURSE NAME/NUMBER FORMER COURSE NUMBER UCFV CREDITS

ENVIRONMENT AND RESOURCES

COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

An investigation into the relationship between humans and their environment in terms of resources use and exploitation. Focus is on integrative thinking about the complexity of environmental management through the examination of biogeochemical concepts as well as socioeconomic concerns; and on the introduction of procedures, techniques, and rationales for managing environmental resources.

PREREQUISITES: Any two of: GEOG 201 or GEOG 202; GEOG 211; GEOG 242; BIO 210

COREQUISITES: None. Recommended: ECON 361 (Environmental and Resource Economics)

SYNONYMOUS COURSE(S)

(a) Replaces: N/A
 (Course #)
 (b) Cannot take N/A for further credit
 (Course #)

SERVICE COURSE TO:

(Department / Program)
(Department / Program)

TOTAL HOURS PER TERM: 60

STRUCTURE OF HOURS:

Lectures: 30 hrs
 Seminar: 30 hrs
 Laboratory: hrs
 Field Experience: hrs
 Student Directed Learning: hrs
 Other (Specify): hrs

TRAINING DAY-BASED INSTRUCTION

LENGTH OF COURSE:
 HOURS PER DAY:

MAXIMUM ENROLMENT: 28

EXPECTED FREQUENCY OF COURSE OFFERING: Annually

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) **YES** **NO**

WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) **YES** **NO** X

TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: **YES** **NO** X

AUTHORIZATION SIGNATURES:

Course designer(s): Steven Marsh, David Gibson, Doug Nicol

Chairperson: (Curriculum Committee)

Department Head: Doug Nicol

Dean: Virginia B. Cooke

PAC Approval in Principle Date:

PAC Final Approval Date: May 30, 2001

LEARNING OBJECTIVES / GOALS / OUTCOMES/ LEARNING OUTCOMES:

1. Examine the concepts of environment and resources, particularly from geographic perspectives
2. Survey the distribution and use of resources
3. Demonstrate the need for integrative, interdisciplinary, and critical approaches to problem-solving in resource management
4. Examine models of resource management, including those with emphasis on uncertainty and conflict.

METHODS:

The format of the course may include lectures, assigned readings, discussion groups, oral presentations, field trips, field and laboratory analyses, surveys and questionnaires. 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 YES X 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:]

Texts:

Dearden, P. and B. Mitchell. 1998. *Environmental Change and Challenge: A Canadian Perspective*, Toronto: Oxford University Press.

Mitchell, B. 1995. *Resource and Environmental Management in Canada*, Toronto: Oxford University Press.

References:

Bocking, S. (ed.), 2000. *Biodiversity in Canada: An Introduction to Environmental Studies*. Peterborough: Broadview Press.

Briggs, David and Courtney, Frank. 1987. *Agriculture and Environment: The Physical Geography of Temperate Agricultural Systems*. London: Longman

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

Dwivedi, O.P., P. Kyba, P. & R. Tiessen Stoett. 2001. *Sustainable Development and Canada: National and International Perspectives*. Peterborough: Broadview Press

Ferguson, I.S. 1996. *Sustainable Forest Management*. New York: Oxford University Press

References: (contd.)

- 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
- 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
- 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
- Palm, Risa I. 1990. *Natural Hazards: An Integrative Framework for Research and Planning*. Baltimore: John Hopkins University 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
- 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
- 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

GEOG 311

COURSE NAME / NUMBER

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:]

Exercises, quizzes	20%
Seminar preparation and discussions	25%
Research/Field trip reports	25%
Examinations	30%

COURSE CONTENT:

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

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