

COURSE IMPLEMENTATION DATE:	September 1993
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: GEOG 211	N/A	3
COURSE NAME/NUMBER	FORMER COURSE NUMBER Environmental Science	UCFV CREDITS
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

From a physical geography perspective, this course introduces the science underlying contemporary environmental problems. Application of the scientific method to case studies of environmental issues will highlight challenges and possible solutions at local, regional, and national scales, while exploring the interface between science, politics, and popular perceptions. A field trip outside of class time is required.

PREREQUISITES: Any first-year course in Geography, Biology, Chemistry, or Physics.
Note: As of September 2009, the prerequisites will change to the following:
GEOG 101 or 102; or any first-year science course in Biology, Chemistry, or Physics.

COREQUISITES:

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

TOTAL HOURS PER TERM: 45	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:	LENGTH OF COURSE: _____
Lectures: 28 Hrs	HOURS PER DAY: _____
Seminar: 12 Hrs	
Laboratory: _____ Hrs	
Field Experience: 5 Hrs	
Student Directed Learning: _____ Hrs	
Other (Specify): _____ Hrs	

MAXIMUM ENROLLMENT:	36
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Twice each year
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Jonathan Hughes, PhD	Chairperson: _____ Miora Kloster
Department Head: _____ Ken Brealey, PhD	Dean: _____ Dr. Eric Davies
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 will be able to:

- Describe the science that underlies local, regional, and global environmental issues and challenges
- Critically evaluate the causes of, and the efficacy of possible solutions to, environmental problems
- Use techniques of graphic representation and quantitative data analysis to effectively communicate to policy makers

METHODS:

Course format will include lectures, discussion groups, and student presentations. Case studies will support student-directed learning and teaching. A mandatory local field trip will support one or more case studies (see Course Content).

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

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

METHODS OF OBTAINING PLAR:

Examinations and/or portfolio assessment.

TEXTBOOKS, REFERENCES, MATERIALS:

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

Freedman, B. 2007. Environmental Science: a Canadian Perspective, 4th ed. Pearson Education Canada, Toronto, Ontario.

Botkin, D.B., E.A. Keller, and I.W. Heathcote. 2006. Environmental Science: Earth as a Living Planet, Canadian edition. John Wiley and Sons, Mississauga, Ontario.

SUPPLIES / MATERIALS:

A field-trip fee may be required.

STUDENT EVALUATION:

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

Class participation	10%
Writing assignment	10%
Midterm exam	20%
Research paper	30%
Final exam	30%

COURSE CONTENT:

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

Lecture topics

- 1 Introduction to course and themes in environmental science
- 2 Science as a way of knowing / Case study
- 3 The biosphere: characteristics and dynamics
- 4 Ecosystem structure and function / Case study
- 5 Human population
- 6 Agriculture
- 7 Water supply, use, and management
- 8 Fossil energy and alternate choices / Case study
- 9 Climate change: arguments for and against anthropogenic forcing
- 10 Waste management
- 11 Environmental legislation / Case study
- 12 Sustainable solutions / Case study
- 13 Conclusions

