

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: BIOL 124 Environmental Science (4CR), online

Prerequisites: none

Course Description: An introductory course for the non-science major. A study of the effects of humans and their technology on the environment.

Human population growth, fundamentals of ecology, principles of resource management, water resources, mineral resources, biological resources, land management, feeding the world, water pollution, air pollution, municipal waste, local, regional, and global issues.

Course Objectives: Demonstrate an understanding and proficiency with:

1. Knowledge and understanding of scientific principles of environmental issues
2. Identifying and explaining the major environmental issues of today
3. How environmental factors influence societies and vica versa
4. How/why society addresses environmental issues

Instructor: Lura

Office: NSC 114

Office Hours: MWF 1:00-2:00

Phone: (701) 228-5472

Email: chuck.lura@dakotacollege.edu

Lecture/Lab Schedule: Spring semester

Textbook(s): McKinney, M.L., and R.M. Schoch.2007. Environmental Science: systems and solutions. Jones and Bartlett Publ. Co., 4th ed.

Course Requirements:	4 Hour Exams @ 100 pts. ea.	400 pts.	A = 100-90%
	Lab evaluations	140 pts.	B = 89-80%
	Quizzes	150 pts.	C = 79-70%
	Total Points	690 pts	D = 69-60%
			F = below 60%

Tentative Course Outline:

**Tentative Syllabus
Spring 2012**

Date	Topic	Chapter
Jan 10-13	Introduction and Overview	“Intro” & Ch 1
Jan 16-20	Human population Lab: County Soil Survey Quiz: History and Regions of North America	2
Jan 23-27	Biosphere, Distribution of Life Lab: Physical Geography of Planet Earth Quiz: Chapters 2 & 3	3
Jan 30-Feb 3	Distribution of Life, Earth Dynamics 1st HOUR EXAM, FRI-SUN FEBRUARY 3-5 (Intro and Ch 1-5) Lab: Community/Ecosystem video Quiz: Chapters 4 & 5	4,5
Feb 6-10	Principles of Resource Management Energy Fundamentals Lab: Alaska National Wildlife Refuge Quiz: Chapters 6 & 7	6,7
Feb 13-17	Energy Fundamentals, Renewable/Alt. Energy Lab: My electricity Quiz: Chapter 8	7,8
Feb 20-24	Water Resources, Mineral Resources Lab: Water Issues Quiz: Chapter 9	9,10
Feb 27-Mar 2	Mineral Resources 2nd HOUR EXAM, FRI-SUN MARCH 2-4 (Ch 6-10) Lab: Life of a Natural Resource Manager Quiz: Chapter 10	10
Mar 5-9	Conserving Biological Resources Lab: Who are the Environmentalists? Quiz: Chapter 11	11
Mar 12-16	“SPRING BREAK”	

Mar 19-23	Land Resources and Management Lab: Snowmobiles in Yellowstone Nat. Prk. Quiz: Chapter 12	12
Mar 26-30	Land Resources and Management Lab: The World Outside the U.S. Quiz: Case Study 12-2 & 12-3	12
Apr 2-6	Feeding the World Lab: No Lab This Week Quiz: Case Study 13-2	13
Apr 9-13	Feeding the World 3rd HOUR EXAM, FRI-SUN APRIL 13-15 (Ch 11-13) Lab: Seafood: To Eat or Not To Eat? Quiz: Chapter 13	13
Apr 16-20	Principles of Pollution, Control, Water Pollution Lab: An Environmental Issue – “Student’s Choice” Quiz: Chapter 14	14,15
Apr 23-27	Water pollution, local/regional /global air pollution Lab: Global Warming Quiz: Chapters 15 & 16	15-17
Apr 30-May 4	Global air pollution, municipal waste, env. econ. Lab: My Water, Wastewater, and Garbage Quiz: Chapters 17 & 18	17-19

FINAL EXAM (Ch 14-18) FRI-SUN MAY 4-6

General Education Goals/Objectives:

Goal 1: Explains the interrelationships between humans and their environment and the role of science in their lives

Goal 2: Demonstrates knowledge and application of technology

Relationship to Campus Theme:

Technological/science developments are discussed in relationship to Global Warming, and air and water pollution and other environmental issues.

Green Revolution and humanity discussed with future considerations

Genetic engineering, technological developments in environmental monitoring

Classroom Policies: Regular attendance and participation in lab and lecture is expected.
All make-up exams will include a significant essay/short answer component and must be made up within one week of the students return to class unless prior arrangements have been made.

Academic Integrity: Cheating on a test, quiz, or other assessment results in zero points for the assessment.

Disabilities and Special Needs: Any accommodations due to a learning disability must come through the MSU-B Learning Center. If you have a diagnosed learning disability, you need to contact the Learning Center in Thatcher 1104 or phone (701) 228-5477.