

Dakota College at Bottineau Course Syllabus

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

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 9:00-10:00 & 2:00-3:00

Phone: (701) 228-5472

Email: charles.lura@dakotacollege.edu

Lecture/Lab Schedule: Fall semester

Textbook(s): McKinney, M.L., and R.M. Schoch.2013. Environmental Science: systems and solutions. Jones and Bartlett Publ. Co., 5th ed.

Course Requirements:	4 Hour Exams @ 100 pts. ea.	400 pts.	A = 100-90%
	Lab evaluations	130 pts.	B = 89-80%
	Lecture quizzes, assignments, etc.	170 pts.	C = 79-70%
	Projects/Reports	<u>100 pts.</u>	D = 69-60%
	TOTAL POINTS	800	F = below 60%

Tentative Course Outline:**Tentative Syllabus
Fall 2014**

Date	Topic	Chapter
Aug. 27-29	Introduction and Overview	“Intro” & Ch 1
Sep 1-5	Human Population Growth Lab: County Soil Survey Quiz: History and Regions of North America	2
Sep 8-12	The Biosphere Lab: Physical Geography of Planet Earth Quiz: Chapters 2 & 3	3
Sep 15-19	Distribution of Life, Earth Dynamics 1st HOUR EXAM, SAT-SUN SEPTEMBER 20-21 (Intro and Ch 1-5) Lab: Community/Ecosystem video Quiz: Chapters 4 & 5	4,5
Sep 22-26	People and Natural Resources Fundamentals of Energy Lab: Alaska National Wildlife Refuge Quiz: Chapters 6 & 7	6,7
Sep 29-Oct 3	Fundamentals of Energy, Renewable/Alternative Energy Lab: My electricity Quiz: Chapter 8	7,8
Oct 6-10	Water Resources, Mineral Resources Lab: Water Issues Quiz: Chapter 9	9,10
Oct 13-17	Mineral Resources 2nd HOUR EXAM, SAT-SUN OCTOBER 18-19 (Ch 6-10) Lab: Life of a Natural Resource Manager Quiz: Chapter 10	10
Oct 20-24	Conserving Biological Resources Lab: Who are the Environmentalists? Quiz: Chapter 11	11
Oct 27-31	Land Resources and Management Lab: Snowmobiles in Yellowstone Nat. Prk. Quiz: Chapter 12	12

Nov 3-7	Land Resources and Management Lab: The World Outside the U.S. Quiz: Case Study 12-2 & 12-3	12
Nov 10-14	Food and Soil Resources Lab: Seafood: To Eat or Not To Eat? Quiz: Case Study 13-2	13
Nov 17-21	Food and Soil Resources 3rd HOUR EXAM, SAT-SUN NOVEMBER 22-23 (Ch 11-13) Lab: An Environmental Issue – “Student’s Choice” Quiz: Chapter 13	13
Nov 24-28	Principles of Pollution, Control, Water Pollution Lab: No Lab This Week Quiz: Chapter 14	14,15
Dec 1-5	Water pollution, local/regional /Global Air Pollution Lab: Global Warming Quiz: Chapters 15 & 16	15-17
Dec 8-12	Global Air Pollution, Municipal Waste, Env. Econ. Lab: My Water, Wastewater, and Garbage Quiz: Chapters 17 & 18	17-19

FINAL EXAM (Ch 14-18) SAT-SUN DECEMBER 13-14

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 Dakota College Learning Center. If you have a diagnosed learning disability, you need to contact the Learning Center in Thatcher 1104 or phone (701) 228-5477.

Student Email Policy

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.