

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: Biol 124/Environmental Science

Number of credits: 4

Course Description: This course will explore the relation of humans to their environment.

Pre-/Co-requisites: none

Course Objectives:

1. Understanding basic principles of Natural Resource Management.
2. Understand the human cause of current environmental problems and possible solutions.
3. Population demography
4. Sustainable practices
5. Applying principles of ecology that are associated with the study of the environmental science
6. Learn to apply critical thinking in environmental science.
7. Using the scientific method of inquiry to inform environmental science perspectives

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Textbook(s): McKinney, M., R.M. Schoch, and L. Yonavak. 2013

Environmental Science; Systems and Solutions. Jones and Bartlett Publishers
5th Edition

Course Requirements: The course is set up in weekly blocks with assignments due on the Monday that follows each week.

Assessment methods- measurement of the expected general education outcomes will be achieved through exams, quizzes, laboratory exercises and a final project.

Exams- There will be 4 exams during the course of the semester. All exams will be worth 100 points. If You are going to be gone you are expected to make up the exam ahead of time. Make up will be worth 70%, which must be made up within a week of the original exam

Lecture- Lecture outlines are available from the course shell. The outlines can be used to guide you in the understanding of the material and assist in note taking. Be prepared and have outlines ready for class.

Quizzes- Each quiz consists of 10 questions to test your understanding of the material presented that week. You will be given unlimited time to complete each quiz. Weekly quizzes will be due on the Monday that follows the week it is posted in.

Laboratory- The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities. There will be no make-ups for labs unless prior arrangements are made and the lab write-ups are due during the next lab period.

Grading;	4- one hour exams	100 pts. X 4	400 pts.
	12 labs	20 pts X 12	240 pts
	16 weekly quizzes	10 pts X 16	160 pts
	Total points possible		800 pts.
Grading Scale:	90%-100%	A	
	80%-89%	B	
	70%-79%	C	
	60%-69%	D	
	Below 59%	F	

Tentative Course Outline:

Topic	Reading Assignment
Week 1- Introduction and Overview	Introduction & Chapter #1
Week 2- Human Population Growth	Chapter #2
Week 3- The Biosphere	Chapter #3
Week 4- Distribution of Life, Earth Dynamics Exam Chapters 1-5	Chapter #4,5
Week 5- People and Natural Resources	Chapter #6,7
Week 6- Fundamentals of energy, Renewable/Alternative Energy	Chapter #8
Week 7- Renewable/ Alternate Energy	Chapter #9
Week 8- Water Resources, Mineral Resources	Chapter #9
Week 9: Mineral Resources Exam Chapters 6-10	Chapter #10
Week 10: Conserving Biological Resources	Chapter #11
Week 11: Land Resources and Management	Chapter #12
Week 12: Food and Soil Resources Exam Chapters #11-13	Chapter #13
Week 13: Principles of Pollution	Chapter #14
Week 14: Water Pollution	Chapter #15
Week 15: Global Air Pollution	Chapter #16-17
Week 16: Waste Management, Environmental Economy Final Exam Chapters #14-19	Chapter #18-19

General Education Goals/Objectives:

1. Demonstrates the application of the scientific method of inquiry, associated technology and critical thinking/analysis skills.
2. Identify the processes of the natural environment and their impact.
3. Apply scientific information and principles to everyday life.

Relationship to Campus Theme: A greater understanding of the Earth, Earth's resources and its companions in the solar system will lead to a greater respect for the environment. Components of technology will lead to this understanding. Students will explore career options for their future.

Classroom Policies: All work must be done in a timely fashion. All assignments are open and have due dates. If you miss a deadline for a quiz or exam, and wish to make it up let me know so I can Open it for you, missed quizzes and exams will be worth 70%. All make-up work must be completed within one week.

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.

Academic Integrity: Academic honesty is expected, any violations is sufficient grounds for immediate failure and removal from class.

Disabilities and Special Needs: Any student who has a disability that may prevent them from fully demonstrating their abilities should contact the disability services:

Jacalyn Migler 228-5672 jacalyn.migler@dakotacollege.edu

to discuss accommodations necessary to ensure full participation and facilitate his or her educational opportunities.