

Dakota College at Bottineau Course Syllabus

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

Number of credits: 4

Course Description:

Pre-/Co-requisites: none

Course Objectives: Students successfully completing the course will demonstrate

- 1) Knowledge and understanding of the scientific principles of environmental issues
- 2) The identification and explain the major environmental issues of the day
- 3) How environmental factors influence society and how society impacts the environment
- 4) How and why society address environmental issues

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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 the following week.

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.

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 miss an exam, you are expected to make it up ahead of time. Make up exams will be different and will be worth 70%, which must be made up within a week following the original exam.

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 due the following Monday.

Laboratory- The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities.

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
	Final project		100
	Total points possible		900 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 learning Outcomes: This course meets General Education Goals:

1. Applies the Scientific method of Inquiry
2. Demonstrates an understanding of the natural environment
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.

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: If you have a disability for which you require accommodations, you are encouraged to contact: Jacalyn Migler 228-5672 jacalyn.migler@dakotacollege.edu