

University of North Texas at Dallas
Spring 2013
SYLLABUS

Course Abbreviation/Number/Title/Semester Hrs	
BIOL1132D_090: Environmental Science: 3 Hrs	
Department of Life and Health Sciences	Division of Liberal Arts and Life Sciences
Instructor Name:	Dr. Irene T. Rodriguez
Office Location:	Room 253, Founder's Hall (Building 2)
Office Phone:	(972) 338-1525
Email Address:	irene.rodriguez@unt.edu
Office Hours:	Monday: 10:00 - 11:00 am Wednesday: 10:00 - 11:00 am (Or by appointment)
Virtual Office Hours:	N/A
Classroom Location:	Room 240, Founder's Hall (Building 2)
Class Meeting Days & Times:	Monday and Wednesday 8:30 am - 9:50 am
Course Catalog Description:	Interdisciplinary approach to understanding basic concepts in environmental science including critical scientific thought, biodiversity, resource management, pollution, global climate change, resource consumption and population growth. Emphasis on how these concepts affect and are affected by human society. Includes laboratory. May not be counted toward a major or minor in biology. <i>Note: May be used to satisfy a portion of the Natural Sciences requirement of the University Core Curriculum.</i>
Prerequisites:	None
Co-requisites:	BIOL1132D_390 Laboratory
Required Text:	Lecture text: Berg LR, Hager MC, Hassenzahl DM. 2011. <i>Visualizing Environmental Science</i> . John Wiley and Sons, Inc. Hoboken, NJ, United States of America. ISBN-13: 978-0470-56918-4
Recommended Text and References:	
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com
Course Goals or Overview:	
	The goal of this course is to introduce students to environmental science and to give students the background information needed to critically think about current environmental issues. Topics will include basic ecology, a review of environmental policy, and resource management theories. The course will include discussions of current environmental and conservation challenges, many of which do not have a clear-cut solution. Students should be willing and able to voice and defend their opinions on these subjects as well as be respectful of the opinions of others. Students will be evaluated based on exam performance and research paper.
Learning Objectives/Outcomes: At the end of this course, the student will	
1	Demonstrate the ability to assimilate and critically think about biological and scientific processes/theories.
2	Demonstrate the ability to assimilate and critically think about environmental policy and legislation.
3	Explain the various roles of organisms in their environment, and discuss the interrelatedness of living organisms, environmental processes, and human cultural and societal needs.
4	Be able to accurately explain the conflicting social, economic, and biological needs of humanity and other

	living organisms.
5	Identify the major attributes and characteristics of the earth's major ecosystems and explain the role they play in economically important ecosystem services and biotourism.
6	List and discuss various personal and corporate actions that can mitigate or reverse the negative impact of human activities on the biosphere; explain various tradeoffs related to sustainable stewardship of the earth's biodiversity and its resources.

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor during class.

Lecture Schedule

Week	Date	Topic
1	Jan 14	Introduction to the course Chapter 1: The Environmental Challenges We Face
	Jan 16	Chapter 1: The Environmental Challenges We Face
2	Jan 21	<i>MARTIN LUTHER KING, JR. DAY – NO CLASS –</i>
	Jan 23	Chapter 2: Environmental Sustainability and Human Values
3	Jan 28	Chapter 2: Environmental Sustainability and Human Values Chapter 3: Environmental History, Politics, and Economics
	Jan 30	Chapter 3: Environmental History, Politics, and Economics Thesis Sentence due by 11:59 pm on Blackboard (Attach a Word Document)
4	Feb 4	Chapter 4: Risk Analysis and Environmental Health Hazards
	Feb 6	Chapter 7: Human Population Change and the Environment
5	Feb 11	Chapter 7: Human Population Change and the Environment
	Feb 13	Movie: <i>Crude Impact</i>
6	Feb 18	Exam I (Chapters 1,2,3,4,7)
	Feb 20	Chapter 5: How Ecosystems Work
7	Feb 25	Chapter 5: How Ecosystems Work Chapter 6: Ecosystems and Evolution
	Feb 27	Chapter 6: Ecosystems and Evolution Annotated Bibliography due by 11:59 pm on Blackboard (Attach Word Doc)
8	Mar 4	Chapter 15: Biological Resources
	Mar 6	Chapter 8: Air and Air Pollution
9	Mar 11	SPRING VACATION – NO CLASSES –
	Mar 13	
10	Mar 18	Chapter 9: Global Atmospheric Changes
	Mar 20	Movie: <i>An Inconvenient Truth</i>
11	Mar 25	Chapter 10: Freshwater Resources and Water Pollution
	Mar 27	Chapter 11: The Ocean and Fisheries Research Paper Rough Draft due by 11:59 pm on Blackboard (through TurnItIn)
12	Apr 1	Exam II (Chapters 5,6,8,9,10,11,15)
	Apr 3	Chapter 12: Mineral and Soil Resources
13	Apr 8	Chapter 13: Land Resources
	Apr 10	Chapter 14: Agriculture and Food Resources
14	Apr 15	Chapter 14: Agriculture and Food Resources
	Apr 17	Chapter 16: Solid and Hazardous Waste
15	Apr 22	Chapter 17: Nonrenewable Energy Resources
	Apr 24	Chapter 17: Nonrenewable Energy Resources Chapter 18: Renewable Energy Resources
16	Apr 29	Exam III (Chapters 12,13,14,16,17,18) Final Research Paper due by 11:59 pm on Blackboard (through TurnItIn)
	May 1	Review for Final Exam
17	May 6	Comprehensive Final Exam: 8:00 AM - 10:00 AM

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Class Participation/Attendance (100 points) – This component involves class discussions, group work, and assignments that will be given throughout the semester, for a total of 100 points. The points per graded discussion/assignment will vary. Some of the discussions/assignments will be announced, but many of them will not be announced prior to the day of the assignment. If a student misses a graded class participation (due to absence or tardiness), they will be allowed to do an alternate assignment for the same amount of points, for up to two absences only. The alternate assignment will be due the class period after the student returns to class. Expect that every class will have class participation points associated with it (i.e. attend every class and be on time).

Research Paper (150 points) – This is a written assignment designed to supplement and reinforce course material. The final research paper is worth 100 points. Prior to turning in the research paper, students will have to turn in a thesis sentence (10 points), an annotated bibliography (15 points), and a rough draft (25 points). This makes the entire research portion worth 150 points.

Exams (500 points) – These are written tests designed to measure knowledge of the presented course material. The material covered in the exam will come from the textbook, lectures (including current environmental events), and class discussions. Students will have three in-class examinations and a comprehensive in-class final exam. Exams 1, 2, and 3 are worth 100 points each. The final exam is comprehensive and worth 200 points. Exams may consist of a combination of multiple choice, matching, fill-in-the-blank, short answer, and various essay items. Any student found cheating will receive a zero (0) for that exam and may face other disciplinary action(s).

Note: 882-E scantrons and pencils are required for every exam.

Laboratory (250 points) – You will perform experiments designed to give you hands-on real-world applications of the lecture material. In some cases, you will watch documentaries to complement the experiments. You will have 2 lab exams worth 40 points each. After each laboratory exercise, you will have an assignment worth 10 - 20 points, for a total of 170 points. Each assignment is due at the beginning of the next lab session. You do not receive a separate grade for lab, so the points received for the laboratory (out of 250) will be added into the lecture grade calculation.

Note: The lab is worth 25% of your final overall grade for the course. However, students must pass both the lecture and the lab independently to pass the course (i.e. if you fail the lab, you automatically fail the entire course and if you fail the lecture, you automatically fail the course).

Grading Matrix:

Instrument	Value (points)	Total
Participation/Attendance	Up to 10 points per class	100
Research Paper	thesis sentence (10 points), annotated bibliography (15 points), rough draft (25 points) final research paper (100 points)	150
Midterm Exams	3 exams worth 100 points each	300
Final Exam	Comprehensive exam	200
Lab assignments	10 – 20 points each	170
Lab exams	2 lab exams worth 40 points each	80
Total:		1000

Grade Determination:

A = 900 – 1000 pts; i.e. 90% or better

B = 800 – 899 pts; i.e. 80 – 89 %

C = 700 – 799 pts; i.e. 70 – 79 %

D = 600 – 699 pts; i.e. 60 – 69 %

F = 599 pts or below; i.e. less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Any student requesting academic accommodations based on a disability is required to register with Disability Services each semester. A letter of verification for approved accommodations can be obtained from this office. Please be sure the letter is delivered to me as early in the semester as possible. Disability Services is located in the Student Life Office in DAL2, Suite 200 and is open 8:30 a.m. – 5:00 pm, Monday through Friday. The phone number is (972) 338-1775.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Assignment Policy:

Assignments should be turned in on time. Late assignments will be graded, but with a penalty of 10% each day it is late.

Exam Policy:

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Students are allowed to take make-up one missed exam, with proper documentation. The instructor must be contacted within 24 hours of the exam to schedule a make-up. A makeup exam must be taken within one week of the original exam. If a student knows in advance that they will miss an exam, they must take the exam prior to the exam date. There is no make-up for the second or subsequent missed exams. Students should arrive on time to take the exam. On exam day, once the first exam is turned in, no more exams will be distributed to students that arrive late to the exam period. Any student caught cheating will automatically receive a 0 on the exam, and the instructor may pursue further disciplinary action.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

Bad Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive and inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Use of Electronic Gadgets in the Classroom:

You are allowed to take notes using laptops/iPads/other electronic devices. You are allowed to record the lectures. The instructor reserves the right to ask you to discontinue use of an electronic device, if it becomes disruptive to others in the classroom.

Food/Drink Policy

No food or drinks are allowed in the classroom or the laboratory, except for water.