University of North Texas at Dallas Fall 2016 SYLLABUS

BIOL 1132 – 005: Environmental Science Lecture 3 HRS					
	Dena	rtment of		School of	-
	Бера	Tunioni or		3311331 31	-
Instructor Name:		Charc	acia Sanders	1	
Office Location: (ders Hall (Building 2), Room 305		
	Phone:			main #: 972.338.1502 cell 214.702-6442	
Email /	Address:		Charc	acia.Sanders@untdallas.edu	4
Office	Office Hours: By Appointment Only				
Office	nours:		Ву	Appointment Only	-
Course	Format/S	Structure:	Fac	ce to Face	1
Classr	oom Loca	tion: F	ounders	ers Hall 240	
Class I	Meeting D	ays & Tim	es:	TuTh 5:30PM - 6:50PM	
	Catalog			inary approach to understanding basic concepts in environmental science	
Descri	ption:			ritical scientific thought, biodiversity, resource management, pollution, global	
				ange, resource consumption and population growth. Emphasis on how these	
				ffect and are affected by human society. Includes laboratory. May not be	
				wards a major or minor in biology. May be used to satisfy a portion of the	
		INal	urai Sc	iences requirement of the University Core Curriculum.	None
Prerea	uisites:	None			140116
	uisites:	BIOL 113	2 – 302		1
	ed Text:			andi, and A. Houtman. 2015. Environmental Science for a Changing World.	
•		Second E	dition. I	Macmillan Education. ISBN10: 1464162204; ISBN13: 9781464162206	
		LaunchP	ad Acc	ess is required	
Recom	mended	Text			7
	ferences				
Access	s to Learn	ing Resou	rces:	UNT Dallas Library: (Founders Hall)	
				phone: (972) 780-1616	
				web: http://www.untdallas.edu/library	
				e-mail: Library@untdallas.edu	
				UNT Dallas Bookstore: (Building 1)	
				phone: (972) 780-3652	
				web: http://www.untdallas.edu/bookstore e-mail: untdallas@bkstr.com	
				e-maii. untdailas@bkstr.com	4
Course	Goals or	Overview	: The a	oal of this course is to introduce students to environmental science and to give	1
				n needed to critically think about current environmental issues. Topics will	
				nvironmental policy and resource management theories. The course will include	
discuss	sions of cu	rrent enviro	nmenta	al and conservation challenges. Students will be willing and able to voice and	
				ects as well as be respectful of the opinions of others.	
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		ives/Outco udents will b		Align with professional standards and/or core curriculum objectives) At the end to:	
1	Demonst theories	trate the ab	ility to a	ssimilate and critically think about biological and scientific processes and	
2	Demonstrate the ability to assimilate and critically think about environmental issues, environmental policy and legislation				
3			ganism	s in their environment and discuss the interrelatedness of organisms,	1
				and human cultural and societal needs	

4	Be able to explain the conflicting biological, social, economic and 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 critical ecosystem services
6	List and discuss various individual and organizational actions that can mitigate or reverse the negative
	impact of human activities on the biosphere as well as the various tradeoffs related to global sustainability

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Blackboard announcement. Additional readings and activities may be added, these will be noted in the Readings and Activities/Assignments sections.

TOPICS	TIMELINE	ASSIGNMENT
Unit 1: Introduction to Environmental Science and Environmental Quality (Chapters 1 – 3, 24)	Weeks 1 – 3	
Environmental Literacy	08/25	
The Scientific Process and Environmental Policy	08/30	
Toxicology	09/01	Learning Curves: 1, 3(Due 09/07)
Exam 1: Chapters 1 – 3, 24 (relevant	parts)	09/08
Unit 2: Human Populations Dynamics (Chapters 4 – 7, 16 – 17, 25, 30 – 31)	Weeks 5 - 6	
Human Populations and Environmental Health	09/13	
Feeding the World	09/20	
Urbanization and Sustainable Communities	09/27	Learning Curves: 4 – 7, 16 – 17 (Due 10/03)
Exam 2: Chapters 4 – 7, 16 – 17, 25, 30 – 31 (relevant parts)	10/04	
		Thesis Statement for Research Paper due on Blackboard (10/07)
Unit 3: Interdependence of Earth's Systems: Fundamental Principles and Concepts (Chapters 8 – 13, 28 – 29)	Weeks 7 - 10	
Ecosystems and Nutrient Cycling	10/06	
Ecosystem Ecology	10/13	
Evolution and Biodiversity	10/20	Learning Curves: 8 – 13 (Due 10/26)
Exam 3: Chapters 8 – 13, 28 – 29 (relevant parts)	10/27	
Unit 4: Nonrenewable and Renewable Resources: Distribution, Ownership, and Use (Chapters 14, 18 - 19, 22 – 23, 26 – 27, 32)	Weeks 11 - 13	
Energy Resources	11/01	Annotated Bibliography for Research Paper due on Blackboard (Due 10/29)
Land and Water Resources	11/08	
Water Pollution	11/17	

Unit 5: Global Changes and Their Consequences (Chapters 15, 20 – 21, 24, 29	Weeks 14 - 15	
Air Pollution and Climate Change	11/22	
STUDENT PRESENTATIONS	11/29 & 12/1	Learning Curves: 15, 18 – 23 (Due 12/05)
		Research Paper due on Blackboard (12/03)
Exam 4: Chapters 14 -15, 19 - 24, 26, 29 - 32 (relevant parts)	12/06	

Grade determination: Separate letter grades will not be assigned for the lab. While laboratory accounts for only 25% of your grade, you must receive a passing grade (60% or higher) in the laboratory to receive a passing grade in the class.

Exams –You will be given four in-class examinations. Each exam is worth 100 points. The exams will consist of a combination of multiple choice questions. **Attendance is required for all exams.** No make-up exams for unexcused absences. Any student found cheating on an exam will receive a zero for the exam and may face other disciplinary action.

LaunchPad LearningCurves – On the **LaunchPad platform** each chapter of your book has a series of questions (quiz) that will test your reading comprehension. There is no grade for this assignment, simply by completing the questionnaire you will get the corresponding 5 points per chapter. By completing all 21 assigned Learning Curves on time, you will receive 105 points. Late submissions will not be graded.

To register for the LaunchPad component of the course go to: http://www.macmillanhighered.com/launchpad/saes2e/2174045 PLEASE bookmark the page to make it easy to return to.

Research Paper – You will be required to write a 5 page research paper on an environmental issue that our society is currently facing. This research paper should address the biological, social, and economic arguments of the environmental issue that you choose. A thesis statement for the research paper (10 pts), as well as an annotated bibliography (20 pts) must be submitted and approved by the respective due dates. Additional instructions, guidelines and rubrics for the research paper will be discussed in class and posted on Blackboard.

Presentation – You will give a presentation on an environmental issue that our society is currently facing. Your presentation, which will be made using a PowerPoint presentation and should be approximately 10 minutes, include a description of the issue, the causes of the issue, potential resolutions, as well as properly referenced and relevant primary data from peer-reviewed scientific research articles. Additional instructions, guidelines and rubrics for the presentation will be discussed in class and posted on Blackboard.

Course Evaluation Methods

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

Exams: - written tests designed to measure knowledge of presented course material

<u>Assignments:</u> - written assignments designed to supplement and reinforce course material (Insert rubric into the syllabus)

<u>Projects:</u> - assignments designed to measure ability to apply presented course material (Insert rubric into the syllabus)

Grading Matrix:

Instrument	Measures SLO	Value (points or percentages)	Total
Laboratory	1, 3, 4, 5		250
Learning Curve	2, 3	21 points	105
Research Project	1, 2, 4, 6	1 points	100

Exams	1-6	4 points	400
TOTAL:			855

Grade Determination

C = 683 - 599A = 855 - 770D = 598 - 513

B = 769 - 684F = 512 pts or below

University Policies and Procedures

Students with Disabilities (ADA Compliance): The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Founders Hall, room 204. (UNTD Policy 7.004)

CoursEval Policy: Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. 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 students' evaluations to be an important part of your participation in this class.

Assignment Policy: According to the instructor's discretion while working in concert with the division/program's quidelines).

Exam Policy: (Discuss any special instructions relating to exams-sample given): Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

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 (Policy 7.002) at

http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf Refer to the Student Code of Student Rights. Responsibilities and Conduct at

http://www.untdallas.edu/sites/default/files/page level2/hds0041/pdf/7 001 student code of conduct may 2014. pdf Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations. facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. In addition, all academic work turned in for this class, including exams, papers and written assignments must 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: Campus facilities will close and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information please refer to http://www.untdallas.edu/police/resources/notifications

Attendance and Participation Policy: (Discuss your attendance and participation policy.)

The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at http://www.untdallas.edu/hr/upol

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 Dean of Students as the instructor deems appropriate. (UNTD Policy 7.001)