University of North Texas at Dallas FALL 2016 SYLLABUS

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BIOL1132-001 : Environmental Science 3Hrs							
Department of		Life 8	k Health Sciences	School of	Liberal Arts & Sciences		
Instructor Name:			ubrey Frantz				
Office Location:		Room 251, Building 2					
Office Phone:		972-338-1523					
Email Address:		aubrey.frantz@untdallas.edu					
Office Hours:	Office Hours: Monday, Tuesday and Thursday: 1:00 – 2:30pm Wednesday: 10:30 – 11:30am						
	(If you need another time, please contact me by email)						
Classroom Location: DAL2 101							
Class Meeting Days & Times			: Lecture: Monday & Wednesday 11:30-12:50am				
		Laboratory: Friday 10:00am – 11:50am section 301					
		Friday 1:00pm – 2:50pm section 302					
Course Catalog		Interdisciplinary approach to understanding basic concepts in environmental science including					
Description:		cientific thought, biodiversity, resource management, pollution, global climate change,					
affected in biolog		consumption and population growth. Emphasis on how these concepts affect and are					
		by human society. Includes laboratory. May not be counted towards a major or minor					
		gy. May be used to satisfy a portion of the Natural Sciences requirement of the					
D ''4		ty Core	Curriculum.				
Prerequisites:	None	22D I	1 4 (4: 204)				
Co-requisites:			boratory (section 304)		a · · · · · · · · ·		
Required Text:							
		econd Edition. Macmillan Education. ISBN10: 1464162204; ISBN13: 9781464162206 Pad Access is required					
	Launcin	au Acc	tess is required				
Access to Learning Resource		rces:	UNT Dallas Library:				
Access to Learning Resource		ces.	phone: (972) 780-3625;				
		web: http://www.unt.edu/unt-dallas/library.htm					
			UNT Dallas Bookstore:				
			phone: (972) 780-3652;				
Course Goals o	r Overview	:	•				
The goal of the	nis course is	to intro	duce students to enviro	nmental science and to	give students the background		
information n	eeded to cri	tically t	hink about current envi	ronmental issues. Topi	ics will include basic ecology, a		
review of environmental policy, and conservation biology. The course will include discussions of current							
environmental and conservation challenges. Students will be willing and able to voice and defend their opinions							
on these subj	ects as well	as be re	spectful of the opinions	of others.			
Learning Object			At the end of this cou				
	, , , , , , , , , , , , , , , , , , ,						
	the ability	to assin	nilate and critically thin	k about environmental	issues, environmental policy and		
	legislation						
	processes, and human cultural and societal needs						
	organisms						
5 Identify the	Identify the major attributes and characteristics of the earth's major ecosystems and explain the role they play						

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

in critical ecosystem services

Course Outline

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

TOPICS	Assignment Due	Date		
Course Introduction		8/22		
Environmental Literacy and Goals of Sustainability (Chapter 1)				
Environmental Literacy and Goals of Sustainability (Chapter 1)		8/24		
Science Literacy & the Process of Science (selections from				
Chapter 2 and 6)				
Human Populations (Chapter 4)		8/29		
Library Instruction - Research Literacy	Learning Curves Chapters 1, 4	8/31		
LABOR DAY – NO CLASS	(Learning Curves 2 and 6 for extra credit)	9/5		
Toxicology and Risk Assessment (Chapter 3)		9/7		
Environmental Health (Chapter 5)	Learning Curves Chapters 3, 5	9/12		
Video: The Estrogen Effect and Review		9/14		
**Thesis Statement for Research Paper due on Blackboard	by 11:59 PM on Friday **	9/16		
Exam I (Chapters 1-5)		9/19		
Writing Center - Research Literacy		9/21		
Managing Solid Waste (Chapter 7)		9/26		
Ecosystems and Nutrient Cycling (Chapter 8)	Learning Curves Chapter 7	9/28		
Ecosystems and Nutrient Cycling (Chapter 8)		10/3		
Population Ecology (Chapter 9)	Learning Curve Chapter 8	10/5		
Community Ecology (Chapter 10)		10/10		
Exam II (Chapters 7-10)	Learning Curves Chapters 9, 10	10/12		
**Annotated Bibliography due on Blackboard	by 11:59 PM on FRIDAY **	10/14		
Evolution and Extinction (Chapter 11)		10/17		
Biodiversity (Chapters 12)	Learning Curves Chapters 11	10/19		
Preserving Biodiversity (Chapter 13)		10/24		
Freshwater Resources and Water Pollution (Chapters 14 & 15)	Learning Curves Chapters 12, 13	10/26		
Freshwater Resources and Water Pollution (Chapters 14 & 15)		10/31		
Video: An Inconvenient Truth		11/2		
**Research Paper due on Blackboard	by 11:59 PM on FRIDAY **	11/4		
Video: An Inconvenient Truth and Review	Learning Curves Chapters 14, 15	11/7		
Exam III (Chapters 11-16)	(Learning Curve 16 and 17 for extra credit)	11/9		
Air and Air Pollution (Chapter 20)		11/14		
Climate Change (Chapter 21)	Learning Curves Chapters 20, 21	11/16		
Fossil Fuels: Coal (Chapter 18)		11/21		
Fossil Fuels: Oil and Natural Gas (Chapter 19)				
Video: Kilowatt Ours	Learning Curves Chapters 18, 19	11/23		
Nuclear Power (Chapter 22)		11/28		
Alternatives to Fossil Fuels – Renewable Energy (Chapter 23)	Learning Curves Chapters 22, 23	11/30		
**Revised Research Paper due on Blackboard	by 11:59 PM on Friday **	12/2		
Energy Discussion Question	Learning Curve Chapter 32	12/5		
Review	(Learning Curve 28 for extra credit)	12/7		
Final Exam IV (Chapters 15-18)				

Course Evaluation Methods

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

Grade determination: Separate letter grades will not be assigned for the lab. While laboratory accounts for only 30% of your grade, <u>you must receive a passing grade (60% or higher) in the laboratory to receive a passing grade in the class.</u>

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

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 20 assigned Learning Curves on time, you will receive 100 points. Late submissions will not be graded.

To register for LaunchPad component of the course go to:

http://www.macmillanhighered.com/launchpad/saes2e/3715858. PLEASE bookmark the page to make it easy to return to. If you have problems registering, purchasing, or logging in, please contact Customer Support. You can reach a representative 24 hours a day, 7 days a week online or by phone at (800) 936-6899. Additional instructions and the direct link to LaunchPad can be found on Blackboard.

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) and an annotated bibliography (20 pts) must be submitted and approved by the respective due dates. You will have the opportunity to revise your research paper for additional points. 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 in class (during the **laboratory** session), 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.

Laboratory- 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. After each laboratory exercise, you will have an associated lab report or lab assignment worth 10-20 points. Each assignment is due at the beginning of the next lab session. In addition, you will have two laboratory exams. A separate laboratory schedule and syllabus will be provided and discussed by the laboratory instructor. Attendance in laboratory is mandatory. **Late assignments will be graded, but with a penalty of 10% each day it is late.**

Energy Resource Discussion – We will have a class discussion on an environmental science issue that will be communicated by the instructor in advance. Students should come prepared to discuss the topic knowledgably and effectively. Student participation in the discussion will be graded and will be incorporated into the total grade as bonus points.

Grading Matrix:

Instrument	Value (points)	
Exam 1	100	
Exam 2	100	
Exam 3	100	
Exam 4	100	
Research Paper	100	
LaunchPad Learning Curves	100	
Laboratory	250	
Total:	850	

Grade Determination:

A = 90% or better

B = 80 - 89 %

C = 70 - 79 %

D = 60 - 69 %

F = 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). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive.

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 Learning Curve submissions will not be graded. Late thesis statements, annotated bibliographies, and research papers will be graded, but with a penalty of 10% each day it is late. Assignment policies for laboratory can be found on the lab syllabus. Exam Policy: 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 at http://www.unt.edu/unt-

dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20 Academic Integrity.pdf for complete provisions of this code.

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 & 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.

UNT Dallas Learning Commons

Writing Center

The UNT Dallas Writing Center offers free, one-on-one or group tutoring services to all registered undergraduate and graduate students. Our goal is to help students write a good paper, and most importantly, become better writers. We work with students on any type of written or oral project and can help students at any stage of the writing process (from brainstorming and outlining to citing and looking over a final draft). The Writing Center is located on the 3rd floor of DAL 1 (big glass structure in front of the stairs). We are available for appointments during the following hours: Mon-Thurs: 9:00am-7:00pm; Fri: 3:00pm-7:00pm; Sat: 10am-3:00pm. To make an appointment, browse the Writing Center's online resources, or see a list of our student FAQ's, please visit www.untdallas.edu/wc. If students cannot come in for a face-to-face appointment, students can take advantage of our free online tutoring service through SMARTHINKING. To submit drafts and get more information about this service, visit www.untdallas.edu/smart. To make the best use of your time, please bring as much information as possible with you to your appointment (assignment, grading rubric, previous graded papers from the class, etc.). The Writing Center will not proofread papers or talk with you about grades, but we will help you become better writers over time.

Math Lab

The UNT Dallas Math Lab offers free, one-on-one or group tutoring services to all registered undergraduate students. Our goal is to help students improve their math skills, succeed in all of courses requiring math, and learn math-related skills they will need post-graduation. We work with students enrolled in all MATH courses at UNT Dallas and provide limited assistance with STATS and ACCT courses. The Math Lab is located on the *3rd floor of DAL 1 in room 336*. Students can walk-in at any time. Check the spring hours at: http://www.untdallas.edu/ml. If students cannot come in for face-to-face tutoring, students can take advantage of our free online tutoring service through SMARTHINKING. To get more information about this service, visit www.untdallas.edu/smart.