## University of North Texas at Dallas Fall 2014 SYLLABUS

Fail 2014 STLLADUS					
Course Abbreviation/Number/Title/Semester Hrs					
P[O] 1122D 006 (19402); Environmental Science: 2 Hrs					
	BIOL 1132D.096 (18492): Environmental Science: 3 Hrs.				
	BIOL1132D.396 (18775): Environmental Science Laboratory				
la eta co	Departme	nt of Life al	Division of Liberal Arts and Life Sciences		
Instruc	tor Name	:	Dr. Lynda Folts		
Office	Location:		Room 302, Founder's Hall (Building 2)		
Unice	Phone:		(972) 322-4200 hunda falta@untdallag.adu		
Citian /	Hours	Mondov: 7:(			
Office	nours.	Wodposday	70 - 0.00  and		
		(or by app	nintment)		
Virtual	Office Ho		pointments available when needed /contact instructor directly		
Classr	oom Loca	tion:	ecture: Room 212 Founder's Hall (Building 2)		
		L	ab: Room 255. Founder's Hall (Building 2)		
Class I	Meeting D	ays & Time	s: Lecture: Monday & Wednesday 8:30-9:50 am		
	<b>J</b>		Lab: Wednesday 12:00-1:50 pm		
Course	e Catalog	Inte	rdisciplinary approach to understanding basic concepts in environmental science		
Descri	ption:	and	community laboratory including critical scientific thought, biodiversity, resource		
		ma	nagement, pollution, global climate change, resource consumption and population		
		gro	wth. Emphasis on how these concepts affect and are affected by human society.		
		Incl	udes laboratory. May not be counted toward a major or minor in biology.		
		Not	e: May be used to satisfy a portion of the Natural Sciences requirement of the		
		Uni	versity Core Curriculum.		
Prereq	uisites:	None			
Co-req	uisites:	Biol 1132D	.396 Laboratory		
Requir	ed lext:	I extbook	:: Hassenzahl, DM, Hager MC, Berg, LR. 2012.		
			ig Environmental Science.4 th Edition. Wiley Publishing Co. United States of America		
Poquir			theok: Environmental Science Laboratory & Field Activities 2nd Edition		
Requi		Kor	Idell Hunt Publishing Company ISBN: 978-1-4652-0229-1		
Access	s to Learn				
A0003.		ing resour	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	e Goals or	<b>Overview:</b>			
	The go	al of this co	urse is to introduce students to environmental science and to give students the		
	backgr	ound inform	ation needed to critically think about current environmental issues. Topics will include		
	basic e	cology, a re	view of environmental policy, and resource management theories. The course will		
	include	discussion	s of current environmental and conservation challenges, many of which do not have a		
	clear-c	ut solution.	Students should be willing and able to voice and defend their opinions on these		
	subject	is as well as	be respectful of the opinions of others. Students will be evaluated based on exam		
1	perform	nance, lab r	eports, assignments, and oral presentation.		
Learni		ves/Outcol	<b>nes:</b> At the end of this course, the student will		
1	Demonst	rate the abi	ity to assimilate and critically think about biological and scientific processes/theories.		
2	Demonst	rate the abil	ity to assimilate and critically think about environmental policy and legislation.		
3	Explain th	ne various ro	bies or organisms in their environment, and discuss the interrelatedness of living		
4		s, environm	ental processes, and numan cultural and societal needs.		
4	De able te	o accurately	explain the conflicting social, economic, and biological needs of numanity and other		
5	Idontify #	ailisilis. 20 maior etti	ibutes and characteristics of the earth's major accounters and evaluin the role they		
3	nuentiny tr	ie major alli ponomically	induces and characteristics of the earth's major ecosystems and explain the fole they		
6	List and a	discuse vario	important coosystem services and biolounism.		
U	human a	niscuss valle	he biosphere: explain various tradeoffs related to sustainable stewardship of the		
	earth's bi	odiversity a	nd 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	Торіс	Assignments	Points Due Dates
1 Aug 25	Chapter 1 & 2 Environmental challenges & Sustainability	Discussion Board Assignment questions Weekly lab	5 5 Required
2 Sept.1	Chapter 3 Environmental History, Politics, and Economics	Discussion Board Assignment questions Weekly lab	5 5 Required
3 Sept.8	Chapter 4 Risk Analysis, Environmental Hazards	Discussion Board Assignment questions Weekly lab	5 5 Required
4 Sept.15	Chapter 5 How Ecosystems Work Exam 1 Posted on Blackboard Course Page-Due 9-19-14	Discussion Board Assignment questions Weekly lab	5 5 Required
5 Sept.22	Chapter 6 Ecosystems and Evolution	Discussion Board Assignment questions Weekly lab	5 5 Required
6 Sept.29	Chapter 7 Human Population Change and Environment	Discussion Board Assignment questions Weekly lab	5 5 Required
7 Oct. 6	Chapters 8 & 9 Air and Air Pollution Global Atmospheric Changes	Discussion Board Assignment questions Weekly lab	5 5 Required
8 Oct. 13	Chapter 10 Freshwater Resources and Water Pollution Exam 2 Posted on Blackboard Course Page-Due 10-17-14	Discussion Board Assignment questions Weekly lab	5 5 Required
9 Oct. 20	Chapter 11 The Ocean and Fisheries	Discussion Board Assignment questions Weekly lab	5 5 Required
10 Oct. 27	Chapter 12 Mineral and Soil Resources	Discussion Board Assignment questions Weekly lab	5 5 Required
11 Nov. 3	Chapter 13 Land Resources	Discussion Board Assignment questions Weekly lab	5 5 Required
12 Nov. 10	Chapter 14 Agriculture and Food Resources	Discussion Board Assignment questions Weekly lab	5 5 Required
13 Nov. 17	Chapter 15 Biodiversity and Conservation Exam 3 Posted on Blackboard Course Page- Due 11-21-14	Discussion Board Assignment questions	5 5 Required

		Weekly lab	
14	Chapter 16 Solid and Hazardous Waste	Discussion Board	5
Nov. 24		Assignment	5
		questions	Required
		Weekly lab	
15	Chapter 17 & 18 Renewable and Non- Renewable Resources	Discussion Board	5
Dec. 1		Assignment	5
		questions	Required
		Weekly lab	
16	Final Exam Posted Online Due-12-9-14		
Dec. 8			

## Laboratory Schedule

Week	Date	Торіс	Points
1	Aug. 27	Lab Introduction: Project discussion	N/A
2	Sept.3	Lab Safety	
		Lab 1. Environmental Ethics and the Scientific Method	10
		Lab Assignment 1: Worksheet on Cancer Cure or Conservation	
3	Sept.10	Movie: Gasland	10
		Lab Assignment 2: Worksheet on the Movie Gasland	
4	Sept.17	Lab 10. Human Population and Environmental Impact	20
		Lab Report 1: Human Population and Ecological Footprint	
5	Sept. 24	Lab 2. The Carbon Cycle	20
		Lab Report 2: Photosynthesis	
6	Oct. 1	Outside Project (wear clothes and shoes for outside work)	n/a
7	Oct.8	Lab 3. The Flow of Energy through Ecosystems	
		Lab Report 3: Flow of Energy through Food Webs	20
		Lab exam 1 – TAKE HOME –	
8	Oct.15	Lab 5. Preserving Local Ecosystems – Movie: Vanishing of the Bees	
		Lab Assignment 3: Worksheet on the Movie: Vanishing of the Bees	10
		Lab exam 1 – DUE AT THE BEGINNING OF THE LAB –	40
9	Oct. 22	Outside Project Work (wear clothes and shoes for outside work)	N/A
10	Oct. 29	Lab 6. Water and Water Pollution	
		Lab Report 4: Water Quality Analysis	20
11	Nov. 5	Lab 11. Resource Consumption	
		Lab Report 5: Marine Fisheries	20
12	Nov. 12	Videos: Plastic bags and bottled water www.plasticfreetimes.com	
		Lab Assignment 4: Essay on plastic bags and bottled water. back2tap.com	10
13	Nov. 19	Lab 4. Land Use and Resource Management	
		Lab Report 6: Soil Analysis	20
14	Nov. 26	No Lab- Happy Thanksgiving	
15	Dec. 3	Lab 12. Applying Environmental Science	
		Lab Assignment 5: Worksheet Energy alternatives	10
16	Dec. 10	Lab exam 2 – STUDENT OUTSIDE PROJECT	40
		Changes in the Lab schedule may be necessary due to weather conditions.	

## **Course Evaluation Methods**

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

**Course Work (550 points)-** 1 Weekly discussion Board, 5 Weekly Assignment Questions, Course work posted on the Blackboard page and due weekly.

**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, other times we will work outside on a campus project. 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

Instrument	Value (points)	Total	
Lecture			
1 Discussion Board	5 points weekly 15 weeks	75	
5 Assignment questions	5 points weekly 15 weeks	75	
Exams	3 exams worth 100 points each	300	
Final Exam	Comprehensive exam	100	
Final Exam Comprehensive exam Lab			
Lab assignments	10 – 20 points each	170	
Lab exams	2 lab exams worth 40 points each	80	
Total:		800	

#### Grade Determination:

Separate letter grades will not be assigned for the lab. As mentioned in the syllabus for BIOL 1132D.396, the lab is worth one-fourth of the total course grade (250 points). This is a large component of your course grade and should be an opportunity to improve your grade, rather than harm it.

## 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/untdallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Aca demic 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 <u>www.unt.edu/dallas</u>. 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 & 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/etc. 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.