Biology 111 Environmental Science Fall 2001 T.R. Wade

Proposed Lecture Schedule

Date		Торіс	Chapter
Aug.	30	Science as a way of Knowing	3
Sept.	4	Tragedy of the Commons	1
~ · F · ·	6	Ecosystem Structure	4
	11 13	Ecosystem Function and Ecological Pyramids Research Tips: Class will meet 8:30-9:15 a.m. in MM	4 I Lab
	18	Biogeochemical cycles: nitrogen & phosphorus	4
	20	Natural capital, Ecosystem services and Biosphere 2	2
	25	What is a species? How did they evolve?	5
	27	Test I (Includes lecture and laboratory material.)	
Oct.	2	Species Interactions and Biodiversity	5
	4	Population Dynamics and Interactions	7
	9	Human Population: Dynamics and Distributions Outline and 3 primary articles due	9
	11	Water Resources	12
	16	Fall Break	
	18	Water Pollution	12
	23	The Chattahoochee, Pesticides and POPs	8,16
	25	Test II (Includes lecture and laboratory material.)
	30	Atmospheric Resources and Pollution	10
Nov.	1	Student Presentations (1-5) Rough Drafts due	
	6	Global Climate Change: evidence and causes	11
	8	Student Presentations (6-10) Rough Drafts due	
	13	Ozone layer and the Montreal Protocol	11
	15	Student Presentations (11-15) Rough Drafts due	
	20	TEST III (Includes lecture and laboratory materi	al.)
	22	Thanksgiving Break	

	27 29	Student Presentations (16-20) Rough Drafts due Energy: Choices for the future	20
Dec.	4 6	Frankenfoods Environmental Justice for All	p. 395-398
	11	Catch-up and Wrap-up Day	

FINAL EXAM - Thursday, December 13, 2001 - 2:00 p.m. - 5:00 p.m. (Test 4 and Cumulative Section)

Goals: "A mind, once stretched by a new idea, never regains its original dimensions." Oliver Wendell Holmes

Environmental Science is an interdisciplinary study combining thoughts from many areas including biology, chemistry, geology, economics, politics, ethics, etc. In this course students begin with a study of natural ecological systems and principles in order to understand the interconnected complex workings of our world. Students then apply these ecological principles to local and global environmental problems as we study the human impact. Students will be stretched by many new thoughts and ideas as we wrestle with various environmental issues, ultimately becoming better stewards of our earth as a result.

Text: Environmental Science, Miller, 8th edition

Lecture: Pierce 101, 10:00 a.m. - Tuesday/Thursday

Laboratory: Pierce 101, 2:30 - 5:30 Thursday

Evaluation:

Tests 300 points

Lab Assignments, Critiques and other Writing
Assignments 85 points

Environmental Issue Paper & Presentation 65 points

Final Exam 150 - 175 points

*Total Points 600- 625 points

HONOR CODE: The Honor Code of Oxford College applies to all work submitted for credit in this course. All such work will be pledged to be yours and yours alone. This is the case when you place your name on any work (tests, papers, lab reports, etc.) submitted.

Office Hours: Wed./Fri. 9:00 a.m. - 11:00 a.m. or by appointment (4-8395).

^{*}Total points may vary based on possible changes in certain assignments over the semester. Grades are assigned on a plus-minus scale.

Proposed Lab Schedule Biology 111 Fall 2001 T.R. Wade

August 30	Pond Ecosystem - Clubhouse Pond Charlie Elliott Wildlife Center			
September 6	Scientific Investigation - EXCEL Set up <u>Lemna</u> Study			
September 13	Terrestrial Investigation - Oxhouse <u>Lemna</u> count Day 7			
September 20	Primary Succession - Davidson Arabia Mt. <u>Lemna</u> count Day 14			
September 27	Introduction to Wetlands			
October 4	Wetland Investigation Research Proposal & Materials list for <u>Lemna</u> Investigation			
October 11	Fall Break			
October 18	<u>Lemna</u> Investigation			
October 25	Stream Assessment - Bear Creek Lemna count Day 7			
November 1	Stream Assessment Lemna count Day 14			
November 8	Sampling Simulation			
November 15	Field Sampling			
November 29	Crunching Sampling Data			
December 6	TBA			

^{*}Labs are subject to change.