Biology 111
Environmental Science
Fall 2002
T.R. Wade
Proposed Lecture Schedule

Date		Topic	Chapter
Aug.	29	Science as a way of Knowing	3
Sept.	3	Tragedy of the Commons	1
	5	Ecosystem Structure	4
	10	Ecosystem Function	4
	12	Ecological Phyramids	4
	17	Biogeochemical cycles	4
	19	Natural capital, Ecosystem services and Biosphere 2	2
	24	What is a species? How did they evolve?	5
	26	**Test I (Includes lecture and laboratory material.)**	
Oct.	1	Biodiversity and Endangered Species	7/18
	3	Alien, Indicator and Keystone Speices **Outline and 3 primary articles due**	7
	8	Population Dynamics and Interactions	8
	10	Human Population: Dynamics and Distributions	11
	15	**Fall Break**	
	17	Water Resources	14
	22	Water Pollution	14
	24	**Test II (Includes lecture and laboratory material.)**	
	29	The Chattahoochee, Pesticides and POPs	10/16
	31	Student Presentation (1-5) **Rough Drafts due**	
Nov.	5	Atmospheric Resources and Pollution	12
	7	Student Presentation (6-10) **Rough Drafts due**	
	12	Global Climate Chagne: evidence and causes	13
	14	Student Presentations (11-15) **Rough Drafts due**	
	19	Ozone layer and the Montreal Protocol	13
	21	**TEST III (Includes lecture and laboratory material.)**	

	26	Student Presentations (16-20) **Rough Drafts Due**	
	28	**Thanksgiving Holidays**	
Dec.	3	Energy: Choices for the future	20
	5	Frankenfoods	16
	10	Catch-up and Wrap-up Day	

FINAL EXAM – Friday, December 13, 2002 – 2:00 – 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.

Text: Environmental Science, Miller, 9th 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

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

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. – 11:30 a.m. or by appointment (4-8395)

Proposed Lab Schedule

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Sept.	5	SI & Excel
	12	Pond Ecosystem
	19	Computer Simulations of a Pond Ecosystem
	26	Rock Outcrop Ecology
Oct.	3	Plant Plot Investigation
	10	Student Conferences
	17	Stream Investigation
	24	Stream Investigation: Results and Conclusions
	31	Wetland Case Study
Nov.	7	Wetland Ecosystems
	14	Terrestrial Ecology Case Study
	21	Terrestrial Ecology Case Study: Results and Conclusions
	28	Thanksgiving Break
Dec.	5	TBA

Lab meets 2:30 – 5:30 Thursday afternoons in Pierce 101. There is no lab manual, handouts will be given for various lab assignments. Lab schedule is subject to change based on any number of uncontrolled factors.