

**Biology 111
Environmental Science
Fall 2000
T.R. Wade**

Proposed Lecture Schedule

| Date | Topic | Chapter |
|-------------|---|----------------------|
| Aug. 31 | Science as a way of Knowing | 3 |
| Sept. 5 | Ecosystems: Structure | 4 |
| 7 | Ecosystem Function: Energy Flow | 4 |
| 12 | Ecological pyramids | 4 |
| 14 | Biogeochemical cycles: water & carbon | 4 |
| 19 | Nitrogen & Phosphorus | 4 |
| 21 | Test I (Includes lecture and laboratory material.) | |
| 26 | Species Interactions | 5 |
| 28 | Population Dynamics | 5,8 |
| Oct. 3 | Population Interactions | 5 |
| 5 | Human Population: Dynamics and Distributions | 9 |
| | Outline and 3 primary articles due | |
| 10 | Water Resources | 12 |
| 12 | Test II (Includes lecture and laboratory material.) | |
| 17 | Fall Break | |
| 19 | Water Pollution | 12 |
| 24 | Wetlands | pg. 155-162, 164-165 |
| 26 | Student Presentations (1-5) Rough Drafts due | |
| 31 | Atmospheric Resources and Pollution | 10 |
| Nov. 2 | Student Presentations (6-10) Rough Drafts due | |
| 7 | Global Climate Change | 11 |
| 9 | Student Presentations (11-15) Rough Drafts due | |
| 14 | Sustainable Energy | 20 |
| 16 | TEST III (Includes lecture and laboratory material.) | |

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| 21 | Student Presentations (16-20) Rough Drafts due | |
| 23 | Thanksgiving Break | |
| 28 | Ozone thinning | 11 |
| 30 | Frankenfoods | p. 395-398 |
| Dec. 5 | Solid and Hazardous Waste | 14 |
| 7 | Pesticides, Toxins & Environmental Health | 16,8 |
| 12 | Catch-up and Wrap-up Day | |

FINAL EXAM - Thursday, December 14, 2000 - 2:00 p.m. - 5:00 p.m. (Test 4 and Cumulative Section)

TEXT: Environmental Science, Miller, 8th edition

Lecture: Pierce 101, 11:00 a.m. - Tuesday/Thursday

Laboratory: Pierce 101, 2:00 - 5:00 Thursday

Evaluation:

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|--|------------------|
| 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.

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 p.m. or by appointment (4-8395).

Proposed Lab Schedule
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|--------------|--------------------------------|
| August 31 | Pond Ecosystem |
| September 7 | Scientific Investigation |
| September 14 | Scientific Data & EXCEL |
| September 21 | Terrestrial Investigation |
| September 28 | Primary Succession |
| October 5 | Wetland Investigation |
| October 12 | Stream Investigation |
| October 19 | 6:00-9:00 Canopy Climber - ABG |
| October 26 | Evaluation of Stream Data |
| November 2 | No Lab: |
| November 9 | Forest Sampling |
| November 16 | Evaluation of Forest Data |
| November 23 | Thanksgiving Break |
| November 30 | Sewage Treatment |
| December 7 | Water Treatment |

BIOLOGY STUDY HINTS

1. Read the assigned material BEFORE coming to class. This will enable you to better understand the lecture, to ask questions about material you did not understand, and make it easier to take notes during lecture. Most students find it helpful to highlight or outline the chapters.
2. After lecture, but BEFORE THE NEXT CLASS, read through your notes. Anything not clear? Any "gaps" in your notes? Attempt to refer back to the text or make a note in the margin and ask about it at the beginning of the next lecture.
3. Keep up with your reading and studying of notes! Begin highlighting or outlining your notes - some students use file cards to organize their material.
4. Do not consider a chapter completed until you understand your notes, the text, and can answer the questions at the beginning and end of the chapter.
5. Study groups of 3-5 are often helpful. DO NOT wait until the day before the exam to begin studying - there is too much material! Get in the habit in college of studying as you go along.
6. If you are having trouble with a certain topic, see me. Often a few minutes of sitting down together will clear up the questions.