

**Biology 111
Environmental Science
Spring 2001
T.R. Wade**

Proposed Lecture Schedule

| Date | | Topic | Chapter |
|-------------|-------|--|--------------------|
| Jan. | 18 | Science as a way of Knowing | 3(omit 3-3 to 3-6) |
| | 23 | Environmental Science | 1 |
| | 25 | Ecosystems: Structure – Function, Energy flow | 4 |
| | 26 | Reconciliation Symposium - Emory | |
| | 30 | Ecological pyramids | 4 |
| Feb. | 1 | Research Tips for ES | |
| | 6 | Biogeochemical cycles: water & carbon | 4 |
| | 8 | Nitrogen & Phosphorus | 4 |
| | 13 | Water Resources: Freshwater | 12 |
| | 15 | Test I (Includes lecture and laboratory material.) | |
| | 20 | Water Pollution: The Chattahoochee River | 12 |
| | 22 | Species Interactions | 5 |
| | 27 | Population Dynamics and Interactions | 5 |
| March | 1 | Human Population: Dynamics and Distributions | 9 |
| | | Outline and 3 primary articles due | |
| | 6 | Atmospheric Resources and Pollution | 10 |
| | 8 | TEST II (Includes lecture and laboratory material.) | |
| | 13,15 | Spring Break | |
| | 20 | Global Climate Change | 11 |
| | 22 | Student Presentations (1-5) | |
| | 27 | Ozone Thinning | 11 |
| | 29 | Student Presentations (6-10) | |
| April | 3 | Energy: sustainable sources | 15 |
| | 5 | Student Presentations (11-15) | |

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| 10 | Feeding the World (Frankenfoods) | 19 |
| 12 | TEST III (Includes lecture and laboratory material.) | |
| 17 | Solid and Hazardous Waste | 14 |
| 19 | Student Presentations (16-21) | |
| 24 | Pesticides, Toxins, Environmental Health | 16, 8 |
| 26 | Catch-up | |
| May 1 | Wrap-up | |

FINAL EXAM - Thursday, May 3, 2001 – 7:00p.m. – 10:00p.m. (Test 4 & Cumulative Section)

TEXT: **Environmental Science**, Miller, 8th edition.

Lecture: Pierce 101, 11:00 am – Tuesday/Thursday

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

Course Objectives: Students will investigate natural ecosystems of the world and discover the human impact on such systems. The complexity of dealing with local as well as global environmental problems from a cultural, economic, political and scientific standpoint will be explored.

Evaluation:

| | |
|----------------------|-------------------|
| Tests | 300 points |
| Writing Component | 150 points |
| Final Exam | 150 points |
| *Total Points | 600 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, practicals, papers, lab reports, etc.) submitted.

OFFICE HOURS: Wed./Fri. 9:00 a.m. – 11:00 p.m. or by appointment (4-8395).

ABSENCE POLICY - Biology Department

All students are expected to attend all lecture and laboratory sessions. However, emergencies may arise which will necessitate absences from class. **Students are allowed 4 cuts in lecture and NO CUTS in lab.** Students may only miss lab without penalty in cases of illness, family emergency or a school sponsored event which is cleared with the professor in advance. Students are responsible for all material which is covered in laboratory and lecture. When possible, students will be allowed to "make-up" laboratory material missed due to an excused absence, however, because of the nature of laboratory material, actual "make-up of missed activities is usually impossible.

PENALTIES

Students who exceed the 4 cut limit in lecture for whatever reasons or have an unacceptable absence from laboratory will have their FINAL grade reduced 5 points per absence. Students who miss 2 labs without acceptable reasons will fail the course (see below).

LECTURE ABSENCES:

THERE ARE NO EXCUSED ABSENCES FOR LECTURE. Each student may be absent four times without penalty. These four cuts may be used for any reason: illness, studying, travel, family emergency, etc. However, ANY additional cuts will result in grade reduction. USE YOUR CUTS JUDICIOUSLY, e.g. for sick leave only.

ACCEPTABLE LABORATORY ABSENCES

Although no discretionary absences, i.e. "cuts", are allowed regarding laboratory, on rare occasions, illness, family emergencies, or certain school sponsored events may make it necessary for a student to miss a laboratory session. The instructor MUST be notified prior to the day of the absence in all but the most extreme emergencies.

In all cases, the final decision regarding whether or not an absence is acceptable will be made by the instructor.

AN UNACCEPTABLE ABSENCE FROM LABORATORY RESULTS IN A FIVE POINT REDUCTION IN THE FINAL GRADE. TWO UNACCEPTABLE LABORATORY ABSENCES RESULT IN FAILURE OF THE COURSE.

MISSED TESTS

Ordinarily, tests cannot be made up, however, this is up to the instructor. If a student misses a test, and the absence is acceptable the missed test will not count either for or against the student. If the absence is not excused the grade will be a zero. Students are cautioned that any excuse for missing an exam will come under severe scrutiny by the instructor. **THE INSTRUCTOR MUST BE NOTIFIED PRIOR TO THE TIME OF THE EXAM, AND THE INSTRUCTOR MAKES THE FINAL DECISION REGARDING WHETHER OR NOT AN ABSENCE IS ACCEPTABLE.**

Laboratory tests which are missed for a reason that is excused MUST be made up. The instructor must be notified prior to the time of the test.

RELIGIOUS HOLIDAYS:

Students must notify the instructor one week in advance if they intend to be absent for a religious holiday.

TARDINESS

Being late to class is rude and distracting. Continued tardiness by any student will result in the assignment of absences and ultimately a reduction in the student's grade. Three tardies equal an absence. The tardy student is responsible for notifying the instructor that she/he entered the classroom late and, therefore, was not absent. The instructor reserves the option of excluding a person from further classroom or laboratory participation if the student is continuously tardy.

Falsification of information regarding absences from class or laboratory will be considered as a breach of academic integrity.

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CLASSROOM AND LABORATORY GUIDELINES

Department of Biology

- I. Eating and drinking are not allowed in either classrooms or laboratories. Therefore, do not bring food items and beverages to class or laboratory. Remember that the use of tobacco in any form is forbidden in Pierce Hall.
- II. Students are expected to wear appropriate attire in classrooms and laboratories. This certainly includes the wearing of shoes.
- III. Students must be safety conscious at all times but especially in the laboratories. Special procedures will be reviewed during laboratory sessions as needed.
- IV. All students are requested to help with housekeeping in the classroom and laboratory.
- V. In Biology 142, 121, and 122 certain designated dissection specimens may be taken from the laboratory with the instructor's permission. The instructor will identify those specimens which may be removed for study elsewhere. These specimens must be returned on or before the time the instructor announces for their return.
- VI. Except for the exceptions noted above (V) materials may not be taken out of the laboratories. This includes microscopes, microscopic slides, demonstration notes and materials, charts, and all other items which are to be found in the laboratory.
- VII. Violation of any regulation noted in Sections V and VI above will be treated as a breach of academic integrity. Therefore, such violations will be immediately reported to the Honor Council.