

Ecosphere in Crisis Lab
 Biology 104, Section 1, Fall 2012
 Mon. 9:10-12:10, 110 Halsey
 Dr. Bob Stelzer

Contact information:

<u>Office Hours</u>	<u>Location</u>	<u>Phone</u>	<u>email</u>
Tuesday 9:00-10:00	Halsey 150	424-0845	stelzer@uwosh.edu
Thursday 12:00-1:00 and by appointment			

Objectives of Lab:

To gain a fuller understanding of how humans interact with their environment through participation in field & lab exercises and by reading and discussing articles treating various aspects of environmental science. Issues such as energy use and supply, global warming, water quality, and biodiversity are becoming increasingly important for the livelihood of humans and for the sustainability of earth. We hope that by the end of Bio 104 you will be able to make more informed decisions about these issues.

Lab Schedule:

You will learn more in Lab and your grade will be better if you come to class prepared. Read through the exercises and other handouts ahead of time. Carefully read the papers for discussion and write down questions or comments that come to mind as you read the articles. These will give you a way to participate in the discussions.

Point distribution:

Lab Reports (3*)	30%
Announced Quizzes (2)	40%
Pop Quizzes (2)	10%
Participation	20%

Overview of lab activities

Lab reports are required for the three exercises in the schedule noted by asterisks. The two announced quizzes will be designed to test your comprehension of material covered in Lab only (not lecture). The first announced quiz will cover all lab material prior to this quiz. The second announced quiz will cover all lab material since the first announced quiz. The pop quizzes will be short (one page or less) and will test your knowledge of readings or other material presented or discussed in lab. Your participation grade will be based on the quantity and the quality of your participation during discussions of papers and films, discussion during lab exercises, and attendance.

Quizzes, lab reports and other field & lab activities must be done (or turned in the case of lab reports) at their scheduled times. Make-ups, where possible, will only be given if you provide a valid, documented excuse. Make-ups must be completed within one week of the missed activity. Late assignments will be docked 10% for each day they are late.

Week	Lab (Items in italics indicate field trips)
Sept 3-7	-----
Sept 10-14	Science, Environmental Sciences and small group discussions; Introduction to Ecological Footprint Exercise
Sept 17-21	Ecological Footprint Exercise* (lab report due Sept. 17); Discussion of class data and the articles “A blot on the land” by Rees and “Ecological footprints: evaluating sustainability” by Palmer.
Sept 24-28	Introduction to forest ecology and Forest Lab
Oct. 1- 5	<i>Forest Lab: Waukau Cr. Forest Preserve*</i> (lab report due Oct 15)
Oct. 8-12	Discuss results from Forest Lab; Introduction to stream ecology; Discuss “Where rivers are born” by Meyer and co-authors
Oct 15-19	<i>Stream Lab: invertebrate and water quality sampling in local streams</i>
Oct 22-26	<i>Field Trip to Material Recovery Center and Landfill in Appleton</i>
Oct 29-Nov 2	Quiz 1 ; Discuss “Recycling food waste 101” by Sullivan and another article to be announced.
Nov 5-9	Introduction to Wind Energy; Discuss paper “Beyond NIMBYism: towards an integrated framework for understanding public perceptions of wind energy” by Devine-Wright
Nov 12-16	<i>Visit to Cedar Ridge Wind Farm</i>
Nov 19-23	Discuss “A climate repair manual” by Stix and “A plan to keep carbon in check” by Socolow and Pacala; Introduction to CO ₂ emissions Lab* (lab report due Nov. 26)
Nov 26-30	Discussion of “Global nitrogen cycling out of control” by Fields and “Dead zones spreading in world oceans” by Dybas; Introduction to Water Quality Lab
Dec 3-7	Water Quality Lab
Dec 10-14	Quiz 2

Where to find the Articles for discussion:

All of the articles will be posted as pdf files on D2L.

Cell phones

Cell phones or similar devices must be turned off and packed away at all times during all class activities including field trips. If you need to have a cell phone on for some urgent reason (e.g. to receive an emergency message during a field trip) you will need to ask about this ahead of time.

Students with Disabilities: Students who have physical or learning disabilities who wish to request academic adjustments should notify the Disabilities office so that appropriate accommodations can be made. For more information call or visit the Counseling Center or Disabilities Services (424-2404).

Academic Integrity: If you decide to cheat on a quiz or to engage in other forms of academic misconduct (e.g. plagiarism) you will be subject to the Student Academic Disciplinary Procedures as outlined in the Student Disciplinary Code

(<http://www.uwosh.edu/dean>). Under Chapter UWS 14 (Student Academic Disciplinary Procedures), “academic misconduct” means an act in which a student (UWS 14.03):

- a) seeks to claim credit for the work or efforts of another without authorization or citation;
- b) uses unauthorized materials or fabricated data in any academic exercise;
- c) forges or falsifies academic documents or records;
- d) intentionally impedes or damages the academic work of others;
- e) engages in conduct aimed at making a false representation of a student’s academic performance; or
- f) assists other students in any of these acts.