

## Syllabus & Information

### **Course Title:**

Environmental Problems Laboratory (EEES 1140)

### **Class location:**

BO 1002

### **Faculty Supervisor:**

Dr. Todd Crail, Bowman Oddy 2001E, 419-530-4583, Email: todd.crail@utoledo.edu

### **Sections and Teaching Assistants:**

001 Mon., 11:00-12:50 TA: John Dilworth, BO 3049, John.Dilworth@rockets.utoledo.edu  
002 Mon., 1:00-2:50 TA: John Dilworth, BO 3049, John.Dilworth@rockets.utoledo.edu  
004 Tues., 11:00-12:50 TA: Michael Cline, BO 3007, Michael.Cline@rockets.utoledo.edu  
005 Tues., 1:00-2:50 TA: Dileepa Jayawardena, BO 3001,  
Dileepa.Jayawardena@rockets.utoledo.edu  
006 Tues., 3:00-4:50 TA: Brittani Furlong, BO 3043, Brittani.Furlong@rockets.utoledo.edu  
007 Wed., 10:00-11:50 TA: Luke Groat, BO 3051, Lucas.Groat@rockets.utoledo.edu  
009 Wed., 2:00-3:50 TA: Luke Groat, BO 3051, Lucas.Groat@rockets.utoledo.edu  
010 Fri., 9:00-10:50 TA: Xinwei Zhang, BO 3051, Xinwei.Zhang@rockets.utoledo.edu  
011 Thr., 12:00-1:50 TA: Cameron McMillan, BO 3001, Cameron.Mcmillan@rockets.utoledo.edu  
012 Thr., 2:00-3:50 TA: Cameron McMillan, BO 3001, Cameron.Mcmillan@rockets.utoledo.edu

\*\*\*All Teaching Assistants have mailboxes in WO 1235B (The DES Main Office)

### **Required Materials:**

- Lab Manual (Downloaded from Blackboard under Learning Ventures at MyUT or at <https://blackboard.utdl.edu>)
- Calculator, field supplies (hat, gloves, boots, raincoat, sunscreen, bug repellent, etc.)
- Lab safety needs (latex gloves, eye protection) are provided

### **Course Description:**

The purpose of this laboratory is to teach scientific thought and methodologies through exploring environmental issues, in a hands-on manner. We will examine a variety of issues, from biodiversity to waste disposal, applying scientific approaches to the investigations.

In addition, this course is approved for credit for the Natural Science Core Requirement, and it will:

- Provide a general understanding of the nature of science
- Provide an analysis and evaluation of scientific information
- Provide discipline specific principles and information regarding the environmental science
- Demonstrate how environmental sciences impact society and how knowledge can be utilized
- Introduce scientific reasoning skills.

### **Evaluation Procedures:**

Grades will be based as follows:

Graded Materials	Total
Formal Laboratory Report	150
Lab Worksheets	250
Quizzes	100
Total:	500

Your overall grade will be calculated on a straight scale (A, 100 – 93%; A-, 92 – 90%; B+, 89 – 87%; B, 86 – 83%; B-, 82 – 80%; etc.) based on your earned points. There will be no extra credit assignments given. The last day to withdraw from class is March 21, 2014.

### **Tardiness and Absences:**

- **Attendance for all lab sections is mandatory. A student will receive a grade of F for the semester if (s)he misses more than 1 laboratory section.**
- This is a laboratory and as such instructions will be given in the beginning of the lab period. Tardiness disrupts class and will not be tolerated.
- If a student arrives more than 10 minutes late for a lab, this will be counted as a missed lab. Exceptions are granted for medical emergencies with a doctor's excuse or family emergencies with proper documentation. For more information see the university's missed class policy, [http://www.utoledo.edu/facsenate/missed\\_class\\_policy.html](http://www.utoledo.edu/facsenate/missed_class_policy.html).
- Planned absences may be managed if *prior* consultation with the TA occurs at least 1 week before the absence.
- In general, no provisions can be made for missed labs.
- Assignments are due at the beginning of the lab, and will be penalized 10% per day if late.

### **Academic Dishonesty:**

The Dept. of Environmental Sciences follows the UT Academic Dishonesty Policy. A student that plagiarizes or cheats will receive an F for the class, and names will be reported to the Dean. See the UT Academic Dishonesty Policy is at: <http://www.utoledo.edu/dl/students/dishonesty.html>.

- Plagiarizing or representing the words, ideas or information of another person as one's own and not offering proper documentation;
- Giving or receiving, prior to an examination, any unauthorized information concerning the content of that examination;
- Referring to or displaying any unauthorized materials inside or outside of the examination room during the course of an examination;
- Communicating during an examination in any manner with any unauthorized person concerning the examination or any part of it;
- Giving or receiving substantive aid during the course of an examination;
- Commencing an examination before the stipulated time or continuing to work on an examination after the announced conclusion of the examination period;
- Taking, converting, concealing, defacing, damaging or destroying any property related to the preparation or completion of assignments, research or examination;
- Submitting the same written work to fulfill the requirements for more than one course.

*Note on homework assignments:* Students work in groups during the labs, and thus should have the same data as other group members, and should come to similar conclusions with the data analysis. However, homework assignments should be completed individually, and questions should be answered in YOUR OWN WORDS. If homework assignments appear to be identical or copied from other student, both students will be given an "F" on the assignment (0 points).

### **Safety in the laboratory and field:**

The exercises in this laboratory were designed with safety as a top priority; you must always follow these safety precautions:

- Wash your hands thoroughly with soap and water when you enter and leave the lab
- Locate the closest fire extinguisher, fire alarm, eyewash, and other emergency equipment. Familiarize yourself with how to use this equipment.
- Material Safety Data Sheets (MSDS's) are available for all chemicals used in the lab. Make yourself familiar with all chemicals, and safety protocols and risks involved.
- Wear closed-toed shoes. No open-toed shoes or sandals are permitted.
- Do not eat, drink, smoke, or apply cosmetics in the lab or field.
- Use the equipment properly. If you have any questions or problems, contact your instructor.
- Clean up spills or broken glass immediately. Report these to your instructor. Broken glass should be discarded in a special 'glass' box.
- Report all injuries—no matter how minor—immediately to your instructor.
- Keep open flames away from flammable materials including you, your clothing and hair.
- Never taste any substance or solution. Do not put anything in lab or field into your mouth.
- Treat all live animals gently and with respect.
- Latex gloves should be used when handling preserved specimens, chemicals, etc.
- Clean and put the microscope away.
- Return all equipment and supplies to their original locations.

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- Wear appropriate pants and long sleeve shirts as needed for the field.
- Wear sunscreen in the field.
- Obey all warnings and safety guidelines.