Title of Course: The Human Environment
Catalog Number, Section, Term: Bio1105.51 Lec; Bio1115.51
Prerequisites: None
Class Room: DH 5529 (Lect); DH 5529 (lab)
Meeting Times and Dates: (Lecture: Wed 5:25-7:05); (Lab/Field: Wed, 7:20-9:00)
Instructor: Dr. Lo Pinto
Office Location: DH 4412
Office Hours: Monday 3-4:40; Tues 11:40 – 1 pm by appointment
Telephone with voice mail: 201 692-2297
FDU Email Address: lopintor@fdu.edu; Web Page: http://inside.fdu.edu/pt/lopinto.html

Course description:
The human species is treated as a biological component of a complex ecosystem. Topics include human evolution, technological change, resource availability, and pollution problems. The scheduling of lecture/lab/ and field experiences may vary from that outlined below to accommodate conditions of tide, weather, and unique learning opportunities that may arise. Some field trips may be scheduled for a weekend day.


RULES, REGULATIONS, GRADES
Attendance and Lateness: Students are expected to attend all classes and to be on time. Late arrivals may be refused entry. A student who is late for a quiz will not be permitted to take it. Anyone late for an exam will not be given extra time to finish. A student arriving after anyone has left after seeing the exam will not be permitted to take the exam. The grade for projects submitted late will be lowered by one letter grade for every day late.

Makeup and Missed Work Policy: There are no makeup exams and laboratory work can not be made up.

Academic Integrity Policy: Students are obliged to review and abide by this FDU academic policy published at http://www.fdu.edu/studentlife/metro/academicintegrity.html

Grading policies:
25% of Grade = The average of counted quizzes
25% of Grade = Mid-Term Exam
25% of Grade = Final Exam
25% of Grade = Project

Quizzes and exams will consist of questions based on both the lecture and laboratory/field portion of the course. Anticipate a weekly oral quiz, to be taken at the start of class. The lowest two quiz grade will be dropped to compute the quiz grade average. Absence from a quiz earns a grade of zero and so will therefore be the lowest grade.

Extra-credit or substitute-credit assignments are never allowed. Primary responsibility for students is knowing the course material addressed in lecture, lab and field, and for performing assignments that may be given.

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OTHER IMPORTANT RULES / REGULATIONS:
Electronic Equipment:
1. **During instruction:** The use of cell phones and/or electronic equipment capable of recording and/or transmitting lectures or any instructional modality is prohibited unless written permission is obtained from the instructor.

2. **When quizzes/exams are in use:** Cell phones and/or any electronic device capable of displaying, recording, or transmitting information must not be used or even accessed for any purpose when exams are also in use. The use, display of, or convenient access to such equipment may result in a failing grade for the course.

Safety and comfort in the Field and Lab
- **Life jackets must be worn at all times when near deep or hazardous water, or when in boats.**
- Students must operate in **buddy pairs/triplets** at all times when in the field.
- Caution appropriate to particular field conditions must be exercised at all times.
- It is important to dress appropriately for weather conditions
- For day long field work students must bring the food and water they intend to consume.
- In the laboratory students must wear long **lab coats** and **safety glasses**. **Open toed shoes, food, & drink are prohibited**

Course Objectives: Students will develop a broad knowledge and understanding of the environment upon which humans depend and will learn how to make informed judgments about environmental issues.

Competencies: Students will become familiar with the characteristics of many ecosystems and the interaction of living organisms with their biological, physical, chemical surroundings.

Outcomes: A broad knowledge and understanding of ecosystems upon which humans depend and the conditions which may disrupt these environments.

Goals: To provide knowledge and understanding of the human environment.

Teaching Methodologies/Activities (Mode of Instruction):
Students learn from classroom and field instruction designed to appeal to visual, audio, and hands-on learners.

COURSE OUTLINE: Appended.
The date each topic will be addressed is approximate because some of the course involves tide and weather dependent field work, the combination of which can not be known in advance.

Weekly Assignments: Study lecture material prior to the next class meeting to be prepared for a quiz or exam.

EXAMS and QUIZZES: **Bring a #2 pencil.** Students must know and understand all lecture, lab, and field work, which are the basis of quizzes and exams Therefore it is important to take good notes. Unless otherwise instructed each quiz will cover only the course material following the previous quiz.

COURSE GRADE: The basis for calculating each course grade is outlined above under “Grading Policy“

Field and Laboratory
The schedule of lab/field experiences, some of which occupy an entire class session may change to adjust to conditions of tide, weather, and unique learning opportunities that may arise. The needed flexibility is accommodated by the field experience done on a weekend and by “field exercise follow-up”. Follow-up also provides time for lectures missed because of full session field trips.

**School of Natural Sciences (SoNS) POLICY REQUIRES STUDENTS TO ARRANGE THEIR OWN TRANSPORTATION AND ARRIVE ON TIME AT FIELD SITES**
SEQUENCE | LECTURE TOPICS | Page #
---|---|---
1. | Science and the Scientific Method | 
2. | Ecosystems – basic units of the natural world | 1-119
3. | Ecosystems – basic units of the natural world | 1-119
4. | The Human Population | 120-175
5. | The Human Population | 120-175
6. | Renewable Resources | 176-319
7. | Renewable Resources | 176-319
8. | Energy | 320-403
9. | Energy | 
10. | Pollution and Prevention | 404-603
11. | Pollution and Prevention | 404-603
12. | Toward A Sustainable Future | 604-634
13. | Toward A Sustainable Future | 604-634
14. | Overview | 
15. | “FINAL” EXAM - cumulative | 

**Fall 08 LAB/FIELD TOPICS**

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**Fall 08 WEEKEND FIELD TRIP**

Date | Day | Time | Height | Time | Height | Time |
---|---|------|--------|------|--------|------|
09/13/2008 | Sat | 01:23PM LDT | 0.5 | L | 
Backup dates: 09/27/2008 | Sat | 01:07AM LDT | -0.1 | L | 07:14AM LDT | 4.9 | H | 01:21PM LDT | 0.1 | L |
10/11/2008 | Sat | 05:53AM LDT | 4.1 | H | 12:07PM LDT | 0.6 | L | 06:09PM LDT | 4.5 | H |
10/25/2008 | Sat | 06:01AM LDT | 4.7 | H | 12:14PM LDT | 0.3 | L | 06:16PM LDT | 4.5 | H |

**Equipment:** live clams/white pails & lids, seine & shrimp nets, white pan, shovels, sieves; Seining; collect invertebrates; do gastropod exp. COLLECT SNAILS & FISH FOR RHEOTAXIS EXP.

**STUDENTS MUST ARRANGE THEIR OWN TRANSPORTATION AND ARRIVE ON TIME AT FIELD SITE**