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: Mon 3:50-5:50 pm, Wed. 4:25- 5:25 pm
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.

ISBN0-13-144200-7), and literature on library reserve as may be assigned.

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 any person 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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93 – 100%
90 - 92%
87 – 89%
83 - 86%
80 - 82%
77 - 79%
73 - 76%
70 - 72%
60 - 69%
< 60%
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 be accessible 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 class room 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
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<td>Overview</td>
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<td>15.</td>
<td>“FINAL” EXAM - cumulatative</td>
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Fall 09

LAB/FIELD TOPICS

1. Sept 2 - Field Work: Introduction & Organization- rules for field work; crew chiefs; transportation plan
2. Sept 9 - Fresh Water Field Trip - Equipment: Surber sampler, plankton nets, white pans, thermometer, pH Meter; shovel to turn over rocks; plastic bags for samples, tt with caps & labeling pen for samples
3. Sept 16 - CANCER CLUSTERS
4. Sept 23 - Soil Communities- Analysis & Berlese funnel for several terrestrial environments (weather dependent)
5. Sept 30 - Library Research on Environmental Issues (confirmed with Dr. Mitch Weiss, Librarian) - MEET AT 5:25 SHARP IN BASEMENT CLASSROOM OF WEINER LIBRARY. - Research Topics Assigned
6. Oct 7 - Testing for Water Borne Disease COLIFORM TESTS on Hackensack River Water
8. Oct 21 - NOISE POLLUTION (if test organisms are available) or - SUSPENDED SOLIDS & Small Organisms (in Hackensack River; Teaneck Stream, other locations)
9. Oct 28 - Mid-Term Exam (covers all lecture to this point unless otherwise announced)
10. Nov 4 - Student Research Reports / Informed Debate - submit summary & annotated bibliography organized by headings
11. Nov 11 - Student Research Reports / Informed Debate - submit summary & annotated bibliography organized by headings
12. Nov 18 - RHEOTAXIS - Equipment for each group of 4 students: 8 inch glass bowls, 1000 ml beakers, magnetic stirrers, stirring plates; white oak tag, goose neck lamps Animals (fish, snails, invertebrates, brine shrimp)
13. Dec 2 - Testing for Eco-Toxicity
14. Dec 9 - Field Work Compensation
15. Dec 16 - Final Exam Dec. 16 (covers all lab and field for semester + lecture from midterm)

WEEKEND FIELD TRIPS - bring sneakers (for boat); old sneakers or get wet sandals for Sandy Hook
- Oct 10 (Sat) or 11 (backup date) Recovering Salt Marsh - Secaucus Hackensack River by FDU Boat; - FDU Boats: Sampling for Killifish, grass shrimp, crabs (blue, fiddler, mud crabs); amphipods; Secchi Disk [this Field Experience is Tentative]
- Oct. 31 (Sat) SANDY HOOK DATES: 10/31/2009 01:08PM 0.3 L; 11/01/2009 12:53PM LST 0.1 L BEACH/MARSH ECOSYSTEM, Equipment: (buckets with lids, seine nets, shrimp nets, white pan, seine net, shovels, sieves. Throw net)- collections from shore invertebrates; gastropod & exp.