Environmental Studies 2 – Introduction to Environmental Science
Summer Session A 2012 Syllabus

INSTRUCTOR: Dr. Kristie Klose (klose@lifesci.ucsb.edu); phone (805) 893-4508.
Office hours, Wednesday 11 – 12PM and by appointment, 2135 Noble Hall

TEACHING ASSISTANT: Emily de Moor (edemoor.ES2ta@gmail.com)
Office hours, Thursday (Tuesday?) 11–12PM and by appointment, 4807 Ellison Hall

If you cannot make our office hours, send us an email and we will arrange another time to meet.

LECTURES: M, T, W 9:30 – 10:55AM in 1920 Buchanan Hall
DISCUSSION SECTION: R 9:30 – 10:55AM in 1100 Webb Hall

COURSE OBJECTIVES: The primary goals of this class include that students: (1) become informed of
major long-term environmental challenges and the scientific principles required for their solution, (2)
understand how the scientific method is applied in environmental sciences, (3) understand physical,
chemical, and biological processes affecting the environment, and (4) strengthen their ability to
integrate and communicate about complex environmental issues and how humans respond to these
problems effectively.

COURSE DESCRIPTION: Introduction to environmental science as a discipline and as a way of thinking.
Discussion of critical environmental issues at local and global scales will be key. Fundamentals of the
physical, chemical, and biological processes important to environmental science will be discussed.
This course provides a lower division introduction to earth and atmospheric aspects of environmental
sciences. Topics will include ecological restoration, biodiversity, biological productivity and energy
flow, renewable and non-renewable energy and the environment, environmental systems and society,
public health and environmental engineering, biogeochemical cycles, and atmospheric, oceanic and
earth sciences. This course serves as a prerequisite for the upper division Environmental Studies
requirement for the major, and also satisfies a College of Letters and Science writing requirement.

COURSE ORGANIZATION: There will be three one-hour and twenty-five minute lectures, and one one-
hour and twenty-five minute discussion section each week. Students are expected to attend all
lectures and to participate in class discussions.

Keller, John Wiley and Sons Publishing

GRADING: This course has a final and two midterm examinations. Each midterm covers one-third of
the course material. The final exam, while comprehensive, will primarily focus on the final one-third of
course material and some material from the first and second thirds.

Grades will be determined according to:
Midterm Exam 1 (20%)
Midterm Exam 2 (20%)
Final Exam (35%)
Discussion Section (25%)
**DISCUSSION SECTION:** The discussion grade will break down as follows:

- **Attendance** (10%)
- **Research Paper - 5 pages** (70%)
- **Participation in section activities** (20%)

**Paper Deadlines:**

**PAPER ROUGH DRAFT DUE THURSDAY, JULY 19TH IN DISCUSSION SECTION**

**FINAL PAPER DUE MONDAY, JULY 30TH BY 5 PM AT EMILY’S GEOGRAPHY DEPT. OFFICE**

Discussion section attendance is mandatory and there is only one section per week.

*Note: The last discussion section will be switched and held on Wed, Aug. 1, rather than Aug. 2, so that we may administer the Final Exam on Thursday, August 2 instead.*

**LECTURES AND LECTURE MATERIALS:** You are expected to attend lectures. I will try, but cannot guarantee that PowerPoint slides will be available on Gauchospace before all lectures. Additional and summary information may not be available or discernable from all slides. Therefore, if you miss a lecture, I highly recommend that you obtain notes from a classmate.

**ACADEMIC CONDUCT:** We all agree to uphold the University Code of Academic Conduct, which is available at [http://www.catalog.ucsb.edu/current/general/app.htm#Personal-conduct](http://www.catalog.ucsb.edu/current/general/app.htm#Personal-conduct). A student found in violation of the Code will receive a failing grade for the course, in addition to any penalties imposed by the University.

Your research paper must be an independent piece of work written by you. You must turn in independently written work that does not copy the wording of another student, a website, or any other source. Avoiding plagiarism means not only avoiding identical wording, but also avoiding “plagiar- phrasing” (very similar statement, with only a few words changed) by restructuring an idea into your own words. If using original wording is unavoidable, then use quotations and cite the source. (I do not accept quoting fellow students.) For a very informative set of examples, see [http://sja.ucdavis.edu/files/plagiarism.pdf](http://sja.ucdavis.edu/files/plagiarism.pdf).

**ASSIGNMENT POLICIES:** Your research paper is due at 5PM on the specified day (hard copies only). If you cannot attend class due to illness, then you can turn in your paper by getting a hard copy to the Geography Dept. office of Emily de Moor by the due date and time. The paper should be no longer than 5 pages, double spaced, with 12 pt. font. End notes or citations should be used to refer to supporting material, (e.g., McGinnis 2000). A full bibliography of cited material should be included in the paper. Please print double-sided.

**Late research papers will be not be accepted.** Please note failure to submit a research paper will have a significant impact on your grade.

**There will be no early exams or make-up exams.** If you miss an exam you will need to produce a written excuse from a treating physician or counselor.

**There will be no study guides given for any exams.** I provide you with very detailed PowerPoint slides of each lecture, and in conjunction with your reading of assigned chapters in the textbook, this is all the information you will need for the exams.
Lecture Schedule:

M, Jun 25  Introduction; Key Themes in Environmental Science (B&K Ch 1)
T, Jun 26  Key Themes in Environmental Science (B&K Ch 2)
W, Jun 27  Key Themes in Environmental Science (B&K Ch 3)
M, Jul 2   Human Population and the Environment (B & K Ch 4)
T, Jul 3   Biogeochemical Cycles (B & K Ch 6)
W, Jul 4   OFF – Independence Day
M, Jul 9   **Midterm Exam #1**
T, Jul 10  Ecosystems and Ecosystem Management (B & K Ch 5)
W, Jul 11  Biodiversity; Biogeography (B & K Chs 8)
M, Jul 16  Biological Productivity and Energy Flow; Ecological Restoration (B & K Chs 9)
T, Jul 17  Wildlife and Fisheries; Environmental Health and Pollution (B & K Chs 13 & 10)
W, Jul 18  Fossil Fuels (B & K Ch 15)
**M, Jul 23**  **Midterm Exam #2**
T, Jul 24  Water supply, management and pollution (B & K Chs 18-19)
W, Jul 25  Climate and Global Warming (B & K Ch 20)
M, Jul 30  Ventura River water quality
T, Jul 31  Class Overview; Environmental Careers
**R, Aug 2**  **Final Exam (comprehensive)**