

Introduction to Environmental Science

ENV SCI 102-002– Spring 2008

Lecture: MWF 9:00 – 9:50 in RH 250

Instructor:

Mathew Dornbush, Ph.D.

Office: 464 Laboratory Sciences

Phone: 465-2264

Email: dornbusm@uwgb.edu

Office Hours: M 12-1, R 9-10

Textbook:

Lecture: Cunningham, W.P., M.A. Cunningham, and B.W. Saigo. 2006 .Environmental Science: A Global Concern. 9th ed. McGraw-Hill, New York. Older and newer editions are also acceptable, but it your responsibility to conform information with lecture material.

Lectures and class handouts will be provided on D2L

Grade Evaluation:

Assignment	Points	% of Grade
1-hr Exam 1	100	~20
1-hr Exam 2	100	~20
1-hr Exam 3	100	~20
Cumulative Final	150	~31
Quizzes/attendance/etc	40	~8
TOTAL	490	100

Final Examination: Mon. May. 19, 8:00 to 10:00 AM in RH 250

Grading Scale: Grades are based on a 90-A, (<90 to 88-AB), 80-B, (<80 to 78-BC), 70-C, 60-D, <60%-F scale, but may be modified at my discretion.

Course Objectives: This course is intended to introduce you to and to educate you about the major environmental issues facing the modern world. This course will be centered on science; both an understanding of what science is, and how it is practiced. All issues in this course are directly relevant to your lives, and the decisions that you make as voters. As the importance of science in political and social issues continues to grow, it is important that you understand how to interpret scientific evidence independent of annalists and politicians, and to draw your own conclusions. The four main objectives of this class are: 1) To understand the scientific method, 2) To learn how to interpret results and figures, 3) To gain a basic understanding of the major factors controlling global energy distribution and climate, and 4) To gain a basic understanding of current environmental issues.

Quizzes/attendance/etc: Attendance and participation are essential components of learning. As such, 30 points is dedicated toward attendance, pop-quizes, or assignments. These will be

administered periodically throughout the course to encourage our mutual involvement in the course.

Exam Policies: There are no makeup exams. If you are unable to attend class on the day of a scheduled exam **I MUST** be contacted prior to class, and **I must be provided with valid proof for your absence**. Last minute emails do not suffice; a phone call or visit well in advance is mandatory. **EACH STUDENT MUST BRING A NO. 2 PENCIL AND THEIR STUDENT ID TO EACH EXAM.** All regular exams will consist of 50 multiple-choice questions; the final will consist of 75 multiple-choice questions (50 over new material and 25 from old material).

Academic Integrity: There is no single factor more important to science than personal honesty. Scientific investigations, even within large collaborative projects, are largely conducted alone in the field or laboratory, and as such, scientists must be self-regulating. The scientific method is dependent upon this honesty; a lack of integrity directly undermines science. For this reason I will pursue all matters of academic dishonesty to the fullest extent possible.

Plagiarism includes both the use of another individual's ideas or their exact words without crediting them. University policy for student academic dishonesty is found at http://www.uwgb.edu/deanofstudents/policies_procedures/students/uws14_17_18.html

Special Needs: It is the policy of the University of Wisconsin-Green Bay to provide appropriate and necessary accommodations to students with documented physical and learning disabilities. This is your right, and I strongly urge any student who suspects that they may have, or are aware of existing disabilities to contact Education Support Services at 465-2671 to make appropriate arrangements to maximize your success.

Secret to Success: This is a large lecture course. As such, it is very difficult for me to get to know you, unless you make the effort to get to know me. Remaining anonymous will not help your cause and detracts from your learning experience. Please make an effort to visit with me, ask me questions as the course proceeds, and participate in class discussions. I really do want to meet you all, and I certainly want you all to succeed. To guarantee this, we both must work.

Tentative Lecture Outline – Spring 2008:

Date	Topic	Readings (9 th ed.)
Background		
Wed. Jan. 23 rd	Syllabus, Introduction	None
Fri. Jan. 25 th	What is Science?	Chapter 2
Mon. Jan. 28 th	Matter and Energy, and Systems	Chapter 3
Wed. Jan. 30 th	The Atmosphere and the Ozone Hole	Chapter 15
Fri. Feb. 1 st	Energy Distribution and Global Climate	Chapter 15
Mon. Feb. 4 th	Geology and Mining Practices	Chapter 14
Wed. Feb. 6 th	Biomes	Chapter 5
Fri. Feb. 8 th	Communities	Chapter 4
Mon. Feb. 11 th		
Wed. Feb. 13 th		
Fri. Feb. 15 th	EXAM 1	None
The Human Population		
Mon. Feb. 18 th	Population Biology	Chapter 6
Wed. Feb. 20 th		
Fri. Feb. 22 nd	Human Population Growth	Chapter 7
Mon. Feb. 25 th		
Wed. Feb. 27 nd	Food and Agriculture	Chapter 9
Fri. Feb. 29 th	GMO's, Animal Confinement Operations	
Mon. Mar. 3 rd		
Wed. Mar. 5 th	Soil Conservation	
Fri. Mar. 7 th		
Mon. Mar. 10 th		
Wed. Mar. 12 th	EXAM 2	
An Exploitation Mentality		
Fri. Mar. 14 th	Why Conserve? – Biodiversity	Chapter 11
<i>Spring Break</i>		
<i>March 15 - 23</i>		
Mon. Mar. 24 th	Biodiversity continued	
Wed. Mar. 26 th	Island Biogeography	Chapter 11
Fri. Mar. 28 th		
Mon. Mar. 31 st	Invasive Species	Chapter 11
Wed. Apr. 2 nd		
Fri. Apr. 4 th	Parks and Preserves	Chapter 13
Mon. Apr. 7 th		
Wed. Apr. 9 th	Restoration Ecology	Chapter 13
Fri. Apr. 11 th		

Mon. Apr. 14 th	EXAM 3	
		Global Change
Wed. Apr. 16 th	Introduction to Global Change	None
Fri. Apr. 18 th	Water Pollution	Chapter 18
Mon. Apr. 21 st		
Wed. Apr. 23 rd	Air Pollution	Chapter 16
Fri. Apr. 25 th		
Mon. Apr. 28 th	Global Warming	Chapter 15
Wed. Apr. 30 th		
Fri. May 2 nd		
Mon. May 5 th	Energy	Chapter 22
Wed. May 7 th		
Fri. May 9 th		
Mon. May 12 th		
May 19th	FINAL (8 to 10 AM)	
