

ENV-110-01-04 ENVIRONMENTAL FOUNDATIONS

Lectures: M W 11:00-12:15 S200B

Workshops: M 2:00-4:40PM *See Syllabus for Workshop Locations by Section*

Course Coordinator: Dr. Marty Becker

Office: S450 Office Hours: MW 9:00-10:30AM

(Or by arrangement)

eMail:*beckerm2@wpunj.edu*

Phone: X3409

Textbook : *Environmental Science*, 10th ed., 2008, Richard T. Wright: Pearson Prentice Hall Publishers, 682p. ISBN 0-13-230265-9.

Topic Chapter(s)

ECOSYSTEMS 1-6

Introduction/History

Ecology I and II

Biological Cycles, Biomes Species and Evolution

****First Exam (10 minute review session will take place before exam)**

Populations and Renewable Resources 7-11

Populations

Human Populations

Water Resources

Soils

Land Use Ecological Economics

*****Second Exam (10 minute review session will take place before exam)***

Energy and Pollution 12-19

Earth's Resources

Conventional Energy

Nuclear Energy

Sustainable Energy

Water Pollution Air Pollution

Toxicology

Solid, Toxic and Hazardous Waste

*****Third Exam (10 minute review session will take place before exam)***

******Final Comprehensive Exam: See
University Exam Schedule for date and
time***

Evaluation:

First Exam 100 points

Second Exam 100 points

Third Exam 100 points

(200 points with drop of lowest exam grade)

Final Exam 100 points

Workshops 100 points

Attendance & Participation 50 points

Total 450 points

Your total grade is the average compilation of these items.

You may drop the lowest exam grade.

This does not include the final exam.

Grades :

A = 91 and above-----C+= 75-78

A- = 89-90 -----C = 71-74

B+ = 85-88 -----C- = 69-70

B = 81-84 -----D = 68-60

B- = 79-80 -----F = 59 or less

Course drop dates:

1/27 Last day for 100% refund*

2/24 Last day for 50% refund*

3/9 Last day to withdraw*

***guide only - see University policy for specifics on refunds and withdrawing from courses**

Student Learning Outcomes for Environmental Foundations

To introduce the subject of environmental science in an interrelating and multi-disciplinary way whereby students can have:

- 1. A basic idea of the principles of ecology**
- 2. A knowledge of human interaction with the ecosphere**
- 3. An adequate sense of quantitative measurement**
- 4. The ability to identify and to critically analyze issues**
- 5. The knowledge of pertinent terminology**
- 6. The knowledge of historical trends and future projections**
- 7. The knowledge of economic evaluation of these concerns via Cost Risk/Benefit Evaluation**
- 8. An appreciation for the ethical and aesthetic values of the environment**
- 9. Sufficient interest in environmental concerns**
- 10. An understanding of the political and economic processes and structures of influencing environmental decisions**
- 11. An awareness and beginnings of developing a global consciousness for environmental concern**
- 12. The experience of at least one in depth study**

Other General Guidelines:

- 1. Attendance of all lectures and laboratories are required. I will not be teaching directly from the textbook. There is a direct correlation between students with good attendance and those will perform well in ENV-110.**
- 2. All my classroom notes for PowerPoint will be on file in the Science Enrichment Center.**
- 3. Exam Make Ups: All make up exams are with my approval and will take place after the final exam is given.**

- 4. All late assignments to be graded will be assessed a penalty of one letter grade per day late.**
- 5. Turn off all cell phones and pagers during class.**
- 6. Be courteous and a good listener to those who are speaking during class and lab.**
- 7. Your work or vacation schedule should not conflict with scheduled course time.**
- 8. Academic dishonesty will not be tolerated! You will receive the maximum penalties in accordance with the WPU student handbook.**
- 9. I do not offer extra credit. Complete all workshop assignments and prepare in advance for exams. Attend all lectures and workshops. If you need help, please stop by my office hours or after class.**
- 10. Death in the Family: Please provide a copy of the death certificate to receive a make up exam or workshop.**
- 11. Do not send workshop assignments as attachments. I will not open them or print them out.**
- 12. A problem with your printer is not an acceptable excuse an incomplete assignment.**

Science Enrichment Center Coupons

You will be given 1 point for each 1 hour and 15 minute visit to the Science Enrichment Center for extra help and tutoring. A maximum of 10 visits is permitted during the semester. All accumulated points will be added to your final course grade.

Best wishes for a great semester. If you have any questions or need extra help during the semester please stop by after class or during my office hours.

Enjoy! Dr. Becker

William Paterson University

ENV 110-01/04, Spring 2008

Workshop Schedule

******(Room assignments may change depending on availability)**

Lab No.	Date	Section 01	Section 02	Section 03	Section 04
Film: "Rachel Carson's <i>Silent Spring</i> "					

1	1/28	2:00PM in S 200			
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			Becker		
		Topo Maps	Isle Royale	Pop. Estimate	GW Model
2	2/4	S 221	S 229	S 431	S 429
		Patasaw	Becker	Brown	Pardi

		GW Model	Topo Maps	Isle Royale	Pop. Estimate
3	2/11	S 429	S 221	S 229	S 431
		Pardi	Patasaw	Becker	Brown

Exam I

2/19

(Will take place during scheduled lecture-RM200B)

			Becker		
		Pop. Estimate	GW Model	Topo Maps	Isle Royale
4	2/25	S 431	S 429	S 221	S 229
		Brown	Pardi	Patasaw	Becker

		Isle Royale	Pop. Estimate	GW Model	Topo Maps
5	3/3	S 229	S 431	S 429	S 221
		Becker	Brown	Pardi	Patasaw

6	3/10	**Student	**Student	Algae and BOD	EB: Sewage
		Report	Report	S 429	S 229
7	3/24	Algae and BOD	EB: Sewage	Pardi	Becker
		S 429	S 229	**Student	**Student
		Pardi	Becker	Report	Report

Exam II

	3/31	(Will take place during scheduled lecture-RM 200B)			
			Becker		
		Harmon	Harmon	Radburn	Radburn
8	4/7	SEC 1-2	SEC 1-2	SEC 3-4	SEC 3-4
		Brown	Brown	Patasaw	Patasaw

		Guest Lecturer	Guest Lecturer	Guest Lecturer	Guest Lecturer
		WPU	WPU	WPU	WPU
9	4/14	Ecological	Ecological	Ecological	Ecological
		Footprint	Footprint	Footprint	Footprint
		Room TBA	Room TBA	Room TBA	Room TBA
		Radburn	Radburn	Harmon	Harmon
10	4/21	SEC 1-2	SEC 1-2	SEC 3-4	SEC 3-4
		Patasaw	Patasaw	Brown	Brown

Exam III

4/28	(Will take place during scheduled lecture-RM 200B)
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Becker
Film: "An Inconvenient Truth"

11

5/5

2:00PM S 200 A

Becker

****Student Report: You will be required to attend a lecture or community service event and write a 1 page report. All topics must be pre-approved. I will be making recommendations during the course of the semester or you are open to select your own topic related to Environmental Science.**