

BSC 1050 – Biology and Environment - Fall 2009



Instructor: Dr. John F. Weishampel (pronounced "WHY - sample?"), Professor of Biology
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Office Hours: It will be best to e-mail or call me to set a formal appointment. I am usually available in my office for official drop-in office hours (i.e., Monday, Wednesday, & Friday 1:30 - 3:00 PM) to answer any questions. However, if these times do not work for you, we can arrange another time.

Class Web Site: Accessible through the webcourses portal on your <http://my.ucf.edu> account. Lecture notes, practice exams, grades, and relevant internet sites will be made available at this site. Most of the PowerPoint slides will be available the day (sometimes night) before class. If this is your first time taking a web-assisted course go to: <http://learn.ucf.edu/> to help you logon.

Lecture Meeting Times: Mondays, Wednesdays, and Fridays, 12:30-1:20 PM Math and Physics Building (MAP) Room 260. The audio recording of lectures is permitted.

Course Description: The course is an introduction to the environmental sciences that stresses a scientific approach toward understanding the nature and scope of contemporary problems in relation to natural systems. It outlines the interactions of biological, physical, chemical, geological, and sociological principles that define natural and anthropogenic ecological change.

Course Purpose: To investigate environmental science and environmental systems in the context of real places, real people, real problems and real data.

Learning Objectives:

Upon successful completion of this course students will be able to:

1. Describe the structure and function of significant environmental systems.
2. Use scientific reasoning to identify and understand environmental problems
3. Critically evaluate arguments regarding environmental issues.
4. See the impact your choices and actions have on the environment.
5. Propose and evaluate potential solutions to environmental problems.

Text: You should purchase the: Withgott, J.H. and Brennan, S. *Environment: The Science Behind the Stories* (Benjamin Cummings) textbook. Thought there are slight differences, either the 2nd or 3rd edition will work. You can purchase a used version (w/o CD) from amazon.com for as low as \$17.95. Another way to save money (For ~\$80), is to purchase an electronic version (eBook) from:

http://wps.aw.com/wps/media/access/Pearson_Default/4893/5010916/login.html

Lastly, there is a copy on reserve at the library.

Additional readings will be posted on-line at the class web site.



Lecture Schedule:

	<u>Date</u>	<u>Lecture Topic*</u>	<u>Associated Reading#</u>
1	Mon. 8/24 (Instructor's Birthday, no presents please)	Course Introduction	
<u>Setting the stage</u>			
2	Wed. 8/26	Tragedy of the Commons	Chapter 1
3	Fri. 8/28	Easter Island	Chapter 1
4	Mon. 8/31	Your Ecological Footprint	Chapter 1
<u>Broad components of Environmental Science</u>			
5	Wed. 9/2	How Science Works	Chapter 1
6	Fri. 9/4	History of Environmental Science	Chapter 2
	Mon. 9/7	Labor Day – No Classes	
7	Wed. 9/9	Environmental Ethics	Chapter 2
8	Fri. 9/11	Environmental Economics	Chapter 2
9	Mon. 9/14	Environmental Policy I	Chapter 3
10	Wed. 9/16	Environmental Policy II	Chapter 3
	Fri. 9/18	Midterm 1	
<u>The Science of the Environment</u>			
11	Mon. 9/21	Chemistry	Chapter 4
12	Wed. 9/23	Energy	Chapter 4
13	Fri. 9/25	Life	Chapter 4
14	Mon. 9/28	Evolution/Speciation	Chapter 5
15	Wed. 9/30	Populations	Chapter 5
16	Fri. 10/2	Communities	Chapter 6
17	Mon. 10/5	Systems Ecology	Chapter 7
18	Wed. 10/7	Biogeochemistry	Chapter 7
	Fri. 10/9	Midterm 2	
<u>Environmental Problems</u>			
19	Mon. 10/12	Human Population Growth I	Chapter 8
20	Wed. 10/14	Human Population Growth II	Chapter 8
21	Fri. 10/16	Soil & Soil Degradation	Chapter 9
22	Mon. 10/19	Agriculture	Chapter 10
23	Wed. 10/21	Ecotoxicology/Environmental Health	Chapter 14
24	Fri. 10/23	Atmospheric Pollution	Chapter 17

25	Mon. 10/26	Global Climate Change I	Chapter 18
26	Wed. 10/28	Global Climate Change II	Chapter 18
	Fri. 10/30	Midterm 3	

Environmental Systems and Dynamics

27	Mon. 11/2	Biodiversity	Chapter 11
28	Wed. 11/4	Biological Conservation	Chapter 11
29	Fri. 11/6	Ocean Systems	Chapter 16
30	Mon. 11/9	Freshwater Systems	Chapter 15
	Wed. 11/11	Veteran's Day – No Classes	
31	Fri. 11/13	Freshwater and Marine Conservation	Chapters 15 & 16
32	Mon. 11/16	Terrestrial Systems/Land Use	Chapter 12
33	Wed. 11/18	Urbanization	Chapter 13
34	Fri. 11/20	Environmental Health	Chapter 14
	Mon. 11/23	Midterm 4	

Moving Towards Solutions

35	Wed. 11/25	Consumerism	
	Fri. 11/27	Thanksgiving Break – No Classes	
36	Mon. 11/30	Nonrenewable Energy	Chapter 19
37	Wed. 12/2	Renewable Energy	Chapters 20 & 21
38	Fri. 12/4	Waste Management	Chapter 22
39	Mon. 12/7	Sustainability	Chapter 23
	Fri. 12/11 10:00 AM – 12:50 PM	FINAL EXAM	

*The dates of these topics and exams serve as a guideline and are subject to change.

#The chapters are associated with the 3rd edition of Withgott and Brennan. There are slight differences with the 2nd edition.

Student Responsibilities:

Etiquette – Students should show proper classroom etiquette. Students should show up to class on time. If arriving reasonably late, students should enter the lecture room quietly and sit in the back. If arriving unreasonably late (>5 minutes), students should not enter the room. Students who need to leave the lecture room early should not come that day. Students should not disrupt other students (or the instructor) in class by talking unless instructed to do so by the instructor.

Readings - Readings, for the most part, are designed to coincide with and supplement the lecture component of the course. The order of reading assignments which generally follow the textbook chapter order (from the 3rd edition) are listed above.

Clickers – You will need to bring your clicker (personal response system) to lecture each day. Class participation grades will reflect clicker responses. These clickers will be used for midterm and final exams, opinion polls, on-the-fly knowledge assessments, attendance. Forgetting your clicker may result in a 0 for class participation for the day or worse, a 0 on an exam. Beginning Wed. 9/3, you will have four graces. So if your batteries run low, if you forgot your clicker, if your car did not start, if you are sick, etc. a couple of times, there is no need to contact me.

Midterms and Final Exam - There will be four in-class lecture midterms, covering material that roughly occurs at even intervals of the course. The lowest midterm grade will be dropped. Thus, if you are unable to make one due to whatever, don't sweat it. But if you have to miss two, that could cause trouble. The final exam will be more comprehensive (with an emphasis on the material covered after the last midterm) and mandatory. These will be clicker tests. However, questions will involve more than a regurgitation of lecture notes or definitions. Questions will involve an analysis of new (but related) information or the synthesis of ideas. These will be derived from concepts covered in lecture and text readings and information on the class website. Lecture material will be emphasized. The exams will be designed to make you think and function as additional learning experiences.

Performance Evaluation:

Class Participation = 10%

4 Midterms (3 x 22.5%, lowest grade is dropped) = 67.5%

Final Exam = 22.5%

Total = 100%

Your grade will be based on the following scale:

90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-60 = F

UCF Students are expected to follow the **Golden Rule:** <http://www.goldenrule.sdes.ucf.edu/>

and

THE UCF CREED

Integrity, scholarship, community, creativity, and excellence are the core values that guide our conduct, performance, and decisions.

Integrity

I will practice and defend academic and personal honesty.

Scholarship

I will cherish and honor learning as a fundamental purpose of my membership in the UCF community.

Community

I will promote an open and supportive campus environment by respecting the rights and contributions of every individual.

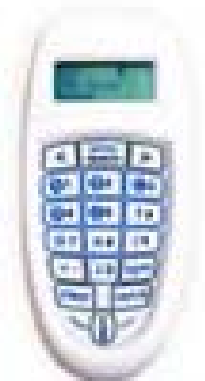
Creativity

I will use my talents to enrich the human experience.

Excellence

I will strive toward the highest standards of performance in any endeavor I undertake.

Instructions for Enrolling Your Response Pad through Webcourses



Class Name: Biology & Environment (BSC 1050)

This document instructs you how to enroll your response pad through Webcourses. This document contains the following sections:

- What items do I need to enroll my response pad?
- How do I enroll my response pad through Webcourses?
- How do I enroll my response pad in more than one Webcourses class?
- If I lost my original response pad, how do I enroll a replacement response pad?
- Where do I locate my response pad's serial number?
- How do I use my CPSRF response pad?
- How do I contact an eInstruction Technical Support Agent?

What items do I need to enroll my response pad?

You will need the following items to enroll in a class:

- Response pad
- Internet connection
- Method of payment (You may use a credit card, personal check, or an enrollment code/coupon code.)

How do I enroll my response pad through Webcourses?

To enroll your response pad through Webcourses, follow these directions:

1. Log on to your Webcourses account.
2. Click on BSC 1050 – Biology & Environment, the course to enroll your response pad
3. In the Webcourses BSC 1050 page, Click on the **Clicker Registration** button.
4. Click the **Register Clicker OR Update Your Serial Number** button.
5. Enter your response pad's **serial number** on the **Welcome to CPS Registration** page.
6. Enter your **enrollment code** or **coupon code**. If you do not have an enrollment code or coupon code, leave the enrollment code field blank.



- NOTE:** If you enter an enrollment code or coupon code and receive a message similar to, "Enrollment code already in use", try proceeding with the enrollment code field blank.
7. Read the **Student Refund Policy**. You can access the **Student Refund Policy** by clicking the **Student Refund Policy** link.
 8. Select the **I have read and agree with the Student Refund Policy** box.
 9. Enter your **CPSOnline username and password** in the appropriate box. Webcourses offers two boxes for you to choose from: **I have used a CPS response pad before**, and **I have never used CPS response pad before**.
 - a. **I have used a CPS response pad before** - *If, at anytime, you have created a CPSOnline account, enter your CPSOnline username and password in this box. This will automatically link your information, including your payment history, from CPSOnline to your Webcourses class. If you forgot your CPSOnline username and password, please contact eInstruction Technical Support at www.einstruction.com/support to retrieve your CPSOnline username and password.*
 - b. **I have never used a CPS response pad before** - *If you have never created a CPSOnline account, you must create a CPSOnline username and password in this box. Write down your CPSOnline username and password because you will refer to your CPSOnline username and password in the future. If, at anytime, you have created a CPSOnline account, do not create a*

new CPSONline username and password in this box. If you forgot your CPSONline username and password then please contact eInstruction Technical Support at www.einstruction.com/support to retrieve your CPSONline username and password.

10. Click **Continue**.
11. Fill in your payment information, if a **Payment Screen** appears. If a **Payment Screen** does not appear then proceed to step 14.
12. Click the **Continue** button.
13. Write down your Pad ID because you will need to refer to your Pad ID in your class.

How do I enroll my response pad in more than one Webcourses class?

To enroll your response pad in more than one Webcourses class, follow these directions:

1. Repeat steps 1-6 in the “How do I enroll my response pad through Webcourses” section.
2. Leave the **enrollment code** field blank if you
 - Used a one-term enrollment code to register in your first class.
 - Used a life-time enrollment code to register in your first class.
 - Do not have an enrollment codeIf you used a one-class enrollment code to register in your first class, you may enter a different one-class enrollment code, one-term enrollment code, or life-time enrollment code in the **enrollment code** field.
3. Select the **I have read and agree with the Student Refund Policy** box.
4. Click **Continue**.
5. Fill in your payment information, if a **Payment Screen** appears. If a **Payment Screen** does not appear then proceed to step 6.
6. Write down your Pad ID because you will need to refer to your Pad ID in your class.

If I lost my original response pad, how do I enroll a replacement response pad?

If you lost your original response pad and need to enroll a replacement response pad, follow these directions:

1. Repeat steps 1-6 in the “How do I enroll my response pad through Webcourses” section.
2. Click the **Submit** button. You will receive the following message:

NOTE: You successfully enrolled your replacement response pad if you receive this message. You *do not* need to enter your serial number again in the **Serial Number** field displayed in this message.

Where do I locate my response pad’s serial number?

To view the serial number for your response pad, simply press the **PWR/Join** button to turn on the response pad. The serial number displays in the LCD screen as your response pad searches for a class roster to join. Your serial number will begin with “r1...”.

How do I use my CPS_{RF} response pad?

The eInstruction response pad is easy to use with CPS. Use the information below to learn how to use the buttons on your Gen2 RF response pad.

Key	Action
0-9	Tap the button - Enters selected value for numeric questions into the response pad.
A-H	Tap the button – Enters selected answer for multiple choice questions into the response pad.
Positive and Negative (+ -)	Tap the button - Makes the current response positive or negative. Negative Answer - The LCD displays a “-” symbol in the first character of the answer. Positive Answer - The LCD <i>does not</i> show a “-” symbol in the first character of the answer.
Sym	Tap the button - Create equations by entering symbols into your response pad. You can include the following symbols: X, Y, Equal (=), Parenthesis (()), Decimal (.), Plus (+), Minus (-), Division (/), Multiplication (*), and Space ().
Clear	Tap the button - Clears immediate previous character. Press and hold the button – clears multiple previous characters (similar to the backspace button on a keyboard).
Jump/Search	Tap the button - Goes to any question within range. In SMA mode you must select a question number. Press and hold the button – searches for the next unanswered question.
Power/Join	Tap the button – turns on response pad.
Send	Tap the button – sends the students’ response to the receiver.
Arrow Keys (< >)	Tap the button – In SMA mode, the current question number is decreased and/or increased on the LCD screen. < LCD screen displays a descending question number. This means the question number is decreasing. (e.g., Q: 23, Q: 22, Q: 21) > LCD screen displays an increasing question number. This means the question number is increasing. (e.g., Q: 21, Q: 22, Q: 23) Adjust LCD Screen Contrast 1. Press the > button while your response pad’s LCD screen displays your response pad’s serial number. 2. Use the A1 button to decrease the contrast and the C3 button to increase contrast. <ul style="list-style-type: none">• This feature becomes disabled after you engage a lesson.

How do I contact an eInstruction Technical Support Agent?

Log on to www.einstruction.com/support or call **1-888-333-7532** to contact a Technical Support Agent. Technical Support Agents are available to assist you Monday-Thursday: 7 A.M. to 6 P.M. CST and Friday 7 A.M. to 5 P.M. CST. If you suspect there is a problem with your response pad, contact an eInstruction agent prior to returning it to the bookstore.