



Environmental Studies 110

Course Information

Course Student Learning Outcomes:

- SLO1 - Explain and apply the fundamentals of evolution and population dynamics to the interaction of humans with the biological world.
- SLO2 - Explain how ecosystem function affects and is affected by producing food, securing water and producing energy and the resulting consequences for human populations.
- SLO3 - Analyze the sources of pollution and their impacts on ecosystems and human health.

Materials:

The course website has the schedule of lectures, deadlines for assignments, dates of exams, link to the online text, my office hours, and the office hours of the course tutor.

- username: envs110
- password: spring16

Text: The required text is online. This is a text that combines sections written by me, some from websites, articles, and texts that I feel are good quality and written to the appropriate detail, good quality images, and embedded videos that I feel provide context and visuals that I could not create otherwise. I have included all links for any material I use for your reference and if you find the particular topic interesting and wish to pursue it further.

Exams and Assignments:

There will be 2 exams that are 150 pts and are NOT cumulative. The final exam is 150 pts and is CUMULATIVE.

Assignment or Exam	Points
Ecological Footprint	30
Exam 1	150
Farmers Market	30
Exam 2	150
Community Involvement/ Blue Economy	30
Final Exam	150
Total	540

In each exam I will calculate the average of the top 3 scores from both classes and use that as 100%. Your grade will be determined out of that score.

Course Grade: I will calculate the total points and your percentage at the end of the semester. I will assign grades according to: (A \geq 93%; A- \geq 90%; B+ \geq 87%, B \geq 83%, B- \geq 80%; C+ \geq 77%, C \geq 70%; D+ \geq 67%, D \geq 63%, D- \geq 60%). Then, I will calculate your grade as if your final exam was the total for your exam points (450 pts for the final + points from your assignments). I will recalculate your grade. Whichever grade is higher will be the grade I assign.

Assignment descriptions and due dates are found on the course homepage. You will submit assignments via email as described in each assignment.

Attendance and Class Behavior:

I reserve the right to remove and drop any student that is a disturbance and hinders the ability of other students to listen and participate in class, including cell phone use. If a student is not in attendance for a prolonged period of time and/or has missed one or more exams, that student may be dropped.

Making this course an enjoyable experience:

1. We must allow for different opinions and create a healthy and safe learning environment for discussion and exploration of a challenging topic.
2. Do not fall behind. Set a schedule and work with other students. Minimal work effort is attending class plus 6 hrs of studying per week.
3. Read my notes, go through practice problems and make regular visits to the tutors.
4. Come and speak to me if you are having problems that impact your performance in the course in any way. I can't help if I don't know.
5. Learn how you learn. We vary in how we learn material. If you figure out what kind of learner you are you can develop strategies to improve and be more efficient. Go to <http://www.engr.ncsu.edu/learningstyles/ilsweb.html>
6. If you have difficulty with the course due to a difference in ability, visit the DSPS office early and develop a strategy and accommodation. See below:

SBCC students with verified disabilities who are requesting academic accommodations should use the following procedure:

- Step 1: Obtain documentation of your disability from a licensed professional. You may contact DSPS to request a Disability Verification Form.
- Step 2: Make an appointment to meet with a DSPS Specialist to review your documentation and discuss reasonable accommodations. To schedule a meeting, please call DSPS at (805) 730-4164.
- Step 3: Bring your disability documentation to your DSPS appointment. The DSPS office is located in room 160 of the Student Services building.
- Step 4: Each semester, reach written accommodation agreement with the DSPS Specialist and your instructor.

Please complete this process in a timely manner to allow adequate time to provide accommodation.



Environmental Studies 110

Week	Topic	Text	Assignment/Exam	Additional Info
1	Introduction Biodiversity	Biodiversity Introduction Biodiversity Levels Biodiversity Importance Case Studies: Biodiversity Importance	Read text Enter deadlines and important dates in your calendar	Grade Sheet Biodiversity Levels Importance Slides
2	Biodiversity	Biodiversity Evolution DNA Niche Food Web and Trophic Levels Biodiversity Distribution	Read text	Mini Lecture Food Chain Mini Lecture Bottom Up Top Down PBS Evolution website Berkeley Evolution website Mini Lecture Intro Micro Evolution Mini Lecture Natural Selection
3	Biodiversity	Extinction Habitat Loss Invasive Species Overexploitation Case Studies: Biodiversity Threats	Read text	
4	Populations	Populations Introduction Population Growth Human Population Case Studies: Population	Read text Start Ecological Footprint Assignment if you have not done so already	Mini Lecture Population Growth Mini Lecture Overshoot Populations slides
5	Populations Food	Human Demography Food Introduction Food Plant	Read Text Ecological Footprint (Friday 2/19 10:00 pm)	Mini Lecture Demographic Transition
6	Food	Food Animal Genetic Engineering Food Case Studies	Prepare for Q&A session in class Mon and Tues- Review Guiding Questions Exam 1 (Feb 24, 25)	Slides: Food
7	Water	Water Introduction Water Supply	Read text	
8	Water	Watershed Ecology Water Pollution Water Case Studies	Read text Start Food and Water Assignment if you have not done so already	Slides: Water
9	Energy	Energy Introduction Fossil Fuels	Read text Food and Water (Friday 3/18 10:00 pm)	Mini Lecture: Biofuels and the Carbon Debt
10	Energy	Nuclear Renewable Energy	Read text	Slides: Energy
11	Pollution and Trash Toxicology	Pollution Introduction Pollution and Trash Toxicology Case Study Mercury Causation	Prepare for Q&A session in class Mon and Tues- Review Guiding Questions Exam II (April 6, 7)	Slides: Toxicology Slides: Smog , Acid rain , Ozone Depletion
12	Local, Regional Air Pollution	Smog Acid Rain Ozone Depletion	Read text	NASA Climate Change RealClimate SkepticalScience New Scientist
13	Climate Change	GCC science GCC Human Caused	Read text	Slides: Global Climate Change
14	Atmospheric Pollution Climate Change	GCC Current GCC Future Case Studies GCC	Community Involvement (Monday 4/18 10:00 pm)	
15	A new paradigm	New Paradigm (For you Information- not on Final Exam)	Prepare for Final Exam	Blue Economy Biomimicry Institute Permaculture Research Institute USA
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Final Exam Schedule
MW class, Monday May 9, 2-4pm
TTh class, Tuesday May 10, 2-4 pm

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