



Environmental Studies 111

Course Information

Learning Outcome:

- SLO 1: Apply an understanding of global environmental issues to our local region.
- SLO 2: Analyze the ways local human activities affect the environment and how changes in the environment affect the local ecology and human population.

Materials:

There is no text for this course. You will need a notebook to take notes and suitable attire for labs that are outside in conditions including sun, wind, rain, mud, heat, and cold. Santa Barbara is generally very mild, but it can surprise you, so keep a spare set of clothes for the lab handy.

Course Website:

All background information, lab report questions, directions for labs, and instructions for lab reports will be posted in the Lab Schedule and Handouts:

- *username:* envs111
- *password:* spring16

Attendance:

Lab officially starts at 11:00 am, this is the start time for labs held on campus. When we meet off campus you are allocated 30 min for travel, so the start time is 11:30 am. It is important that you are on time. There are 10 pts allotted per lab for participation.

Tardiness:

If you are late to lab you will lose 5 points for each time you are late. If you are late 3 times you will be dropped 1/3 of a grade (i.e. B+ to B). If you are late 4 times you will be dropped 2/3 of a grade (i.e. B+ to B-). If you are late 5 times you will be dropped one full grade (i.e. B+ to C+). If you are late more than 5 times you will automatically fail the class.

Absences:

Participation in lab is required. I allow one excused absence and you will need to provide me with a written excuse. If you miss a lab and fail to provide a suitable excuse you will receive a full grade drop. If you miss two labs without a suitable excuse you will automatically fail the class. If you miss a lab due to some verifiable emergency, then you will be allowed to submit a report based on online research, but you will not receive the participation credit unless you can make up the attendance in the other lab section or on your own. You will need to speak with me to determine if/how this would work.

Reports:

Lab reports are worth variable points depending on the number of questions. Lab reports will be submitted online by **Sunday at 10:00 pm** of the week the lab report is assigned.

Each Lab report assignment has a unique email address where you are to send the report. Make sure you send the report to the right email address.

Late lab reports will be given 0 pts. I determine the time based on the time noted on the email that I receive. Note that there may be a delay between the time you submit the assignment and the time I receive it. For this reason it is essential that you submit the assignment well ahead of the time it is due. For example, if you submit the assignment at 9:55 pm and it arrives in the email inbox at 10:01 pm, then it is late and will receive 0 pts.

Final Exam:

There will be one final exam at the end of the semester. It will cover all the labs and most of the questions will be derived from the reports and the background information for each lab. This exam is worth 100 pts.

Behavior:

I reserve the right to remove and drop any student that acts in any way that disrespects me, fellow students, or anyone who is providing guidance for any lab. This includes being late (see attendance section), using a cell phone during lab for non-emergency situations, talking during lab about non-lab topics, leaving lab early, damaging lab materials, or crating a dangerous situation for themselves or others.

Point Allocation:

Component of Lab	Points
Participation	15 labs * 10 pts/lab = 150 pts
Lab Reports	Approximately 200 pts depending on labs
Exam	100 pts



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For labs off Campus you are allotted 30 minutes of travel time to and from the lab.

Week	Date	Lab	Relevant section in 110 text
1	1/19 1/20	Introduction/SBCC Campus • SBCC District Sustainability Plan • SBCC Center for Sustainability	<ul style="list-style-type: none"> • Sustainability A New Paradigm • Sustainable Cities • Sustainable Architecture • Sustainability as a new Liberal Art • Sustainable Business
2	1/26 1/27	Ellwood Mesa Ellwood Lab Report Due (Sunday, Jan 31, 10pm)	<ul style="list-style-type: none"> • Evolution • Biodiversity Extinction • Biodiversity Habitat Loss • Biodiversity Invasive Species
3	2/2 2/3	Lotusland	<ul style="list-style-type: none"> • Biodiversity Levels and Importance • Cases Importance • Evolution • Biodiversity Distribution • Biodiversity Extinction • Biodiversity Habitat Loss • Biodiversity Invasive Species • Biodiversity Overexploitation
4	2/9 2/10	Natural History Museum Biodiversity Lab Report Due (Sunday Feb 14, 10pm)	<ul style="list-style-type: none"> • Biodiversity Levels and Importance • Cases Importance • Evolution • Biodiversity Distribution • Biodiversity Extinction • Biodiversity Habitat Loss • Biodiversity Invasive Species • Biodiversity Overexploitation
5	2/16 2/17	Coal Oil Point Coal Oil Point Lab Report Due (Sunday, Feb 21, 10pm)	<ul style="list-style-type: none"> • Biodiversity Levels and Importance • Cases Importance • Evolution • Biodiversity Distribution • Biodiversity Extinction • Biodiversity Habitat Loss • Biodiversity Invasive Species • Biodiversity Overexploitation
6	2/23 2/34	Populations/Sustainable Fisheries (No Lab Report)	<ul style="list-style-type: none"> • Population Growth • Case Tragedy of the Commons • Case Shifting Baselines • Case Shifting Baselines Fisheries
7	3/1 3/2	Fairview Gardens Fairview Gardens Lab Report Due (Sunday, March 6, 10pm)	<ul style="list-style-type: none"> • Food Crops • Food Animals • Case Colony Collapse Disorder
8	3/8 3/9	Rattlesnake Canyon	
9	3/15 3/16	Riparian Riparian Lab Report Due (Sunday March 20, 10pm)	<ul style="list-style-type: none"> • Water Supply • Watershed Ecology • Case Steelhead Trout • Case Santa Barbara Drought
10	3/22 3/23	Carpinteria Salt Marsh Salt Marsh Lab Due (Sunday, Oct 25, 10pm)	<ul style="list-style-type: none"> • Water Supply • Watershed Ecology • Case Ecosystem Services • Case Invasive Species
11	4/5 4/6	Energy, Water, and GHG's (No lab report)	<ul style="list-style-type: none"> • Fossil Fuels • Nuclear • Renewable • Case Path to Sustainable Energy
12	4/12 4/13	El Estero Waste Water Treatment	<ul style="list-style-type: none"> • Toxicology • Water Pollution

13	4/19 4/20	Tajiquas Landfill Waste Lab Report Due (Sunday, April 24, 10pm)	<ul style="list-style-type: none"> • Trash and Landfills • Case Plastics in the Oceans
14	4/26 4/27	Conflict Resolution- meet in lab at 11:00 No Lab Report	
15	5/3 5/4	Air Pollution Control District Air Pollution Lab Report Due (Sunday, May 8, 10pm)	<ul style="list-style-type: none"> • Local Air Pollution and Smog • Acid Rain • Global Climate Change Science • Global Climate Change Impacts on California
16	5/10 5/11	Final Exam Tues Lab Final Exam Wed Lab	Final Exam Schedule

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