

Lecture: Tu/Th 11:20-12:50 pm, Brousseau 113		Office hours: Tu/Th 1:15-2:30 pm Wed 11:30-1:00 pm
Lab: 39 hours		
Feb 22, SMC wetlands assessment of invasive species (4 hrs) March 1, Set up and apply treatments for removal experiments in SMC wetlands (4 hrs) March 11, Monterey Bay and Monterey Bay aquarium (11 hrs) March 29, Real Goods Alternative Energy Center (8 hrs) April 29, Mt. Diablo—Biodiversity and Adaptations (8 hrs) May 3, SMC wetlands (4 hrs)		

Dates	Topics	Reading Assignment
Feb 07	Introduction	Ch. 1
Feb 09	Ecosystems: What they are	Ch. 2
Feb 14	How Ecosystems work	Ch. 3
Feb 16	Continue Chapter 3, begin How ecosystems change	Ch. 4
Feb 21	Continue Ch 4	Ch. 4
Feb 23	Human Population	Ch. 5
Feb 28	Population and Development	Ch. 6
Mar 2	Water availability	Ch. 7
Mar 7	Exam I	
Mar 9	Soil	Ch. 8
Mar 14	Food availability	Ch. 9
Mar 16	Biodiversity	Ch. 10
Mar 21	Use and restoration of ecosystems	Ch. 11
Mar 23	Energy—fossil fuels, nuclear power	Ch. 12 & 13
Mar 28	Energy—Renewable	Ch. 14
Mar 30	Environmental hazards and health	Ch. 15
Apr 4	Pests and their control	Ch. 16
Apr 6	Exam II	
Apr 18	Water pollution	Ch. 17
Apr 20	Solid waste disposal	Ch. 18
Apr 25	Hazardous chemicals	Ch. 19

Apr 27	The Atmosphere	Ch. 20
May 2	Atmospheric pollution	Ch. 21
May 4	Economics and Public Policy	Ch. 22
May 9	Ch 22 continue and begin Sustainability	Ch. 23
May 11	Sustainability	Ch. 23

Reasonable and appropriate accommodations, that take into account the context of the course and its essential elements, for individuals with qualifying disabilities, are extended through the office of Student Disability

### Learning Objectives

Students will:

1. learn how to measure environmental parameters;
2. develop an awareness of the aspects and values of earth's environment;
3. gain experience in collaboration with colleagues to achieve a goal;
4. observe and understand the function of wetland habitats in California;
5. learn to analyze and understand environmental sustainability problems from multiple perspectives;
6. learn to integrate principles from ecology, biogeography, population, genetics, economics, sociology, political science and how they apply to earth's environments;
7. learn to assess and discern important points of articles

### General Information:

<b>Grading:</b>	
3 exams, 100 pts. each	= 300
5 lab write-ups, 25 pts. each	= 75
1 semester experiment report, 40 pts	= 40
1 article (newspaper, journal or news magazine) pertinent to any topic considered in this course, bring in and share it the with class	= 5
*** - 30 pts for each laboratory missed	<b>420 pts</b> Total Possible

If you miss three classes for any reason, your grade drops ½ grade (A to A-, for example) and again for each additional class you miss. If you are repeatedly late, two lates equal an absence.

- A = 90-100% of possible points
- B = 80-89.999%
- C = 70-79.999%
- D = 60-69.999%
- F = <60%

Do readings as assigned. Review notes regularly. Do not let readings or reviewing notes pile up. Science is very content rich. (That means there is a very large amount to learn and if you do not stay on top of it you will not be successful on exams. Trying to cram in everything the night or two before an exam is an exercise in futility.

There are no silly questions. If you do not understand something probably 5 of your classmates

do not understand, either. Ask me to re-explain. If you have an insight or example to illustrate what I am discussing, please contribute to the discussion.

Learning objectives: