

CONSERVATION AND THE HUMAN PREDICAMENT - 2011
Anthropology ANBI 132/Biology BIEB 176
Professors Shirley Strum & David Woodruff

Tentative Schedule 3/24/11

Date	Instructor	Lecture Topic MWF in Peterson Hall 110	Chapters in <u>P</u> rimack, or <u>E</u> -reader
Mar 28	Strum/DSW	Introduction: from wildlife to biodiversity to ecological services in a human dominated world	P 1
30	Woodruff	Species extinctions and the roots of conservation <i>Film_6-7:20pm "Home" (Center 212)</i>	P 2
April 1	Woodruff	The conquest of nature and the ecological footprint	P 1
4	Woodruff	Defusing the population bomb	P 4
6	Woodruff	Principles of conservation biology <i>Film 7-8:20p "A Place without People" Center 212</i>	P 5, P 6
8	Western	<i>Challenges to conservation</i>	E-1
8	Western	Globalization & our changing role in nature	
11	Western	Origins of modern conservation	E-1
13	Strum	Where does "nature" come from? <i>Film 7-8:20p "Of Forests and People" Center 212</i>	E-2
15	Strum	How the rest of the world sees "nature"	E-3
18	Strum	From concepts to values for "nature"	P 3
20	Strum	Who has rights: people or nature? <i>Film 7-8:20p "Food INC" (Center 212)</i>	E-3, P-3
22		Midterm exam 1 (30%)	
<i>Approaches</i>			
25	Western	Natural connections: Local conservation	P 7, P 8
27	Western	National conservation	P 7
29	Western	Global conservation	E-3, P 9
<i>How science informs conservation</i>			
May 2	Woodruff	Genetic variation and the future of evolution	P 8
4	Ron Swaisgood	Can zoos save species?	P 6
6	Strum	Jurassic Park: restoring species and habitats	P 8
<i>Conservation in the real world</i>			
9	Strum	Re-wilding: restoring ecological communities	P-8
11	Woodruff	Unsustainable development, laws and human rights	P 9
13	Woodruff	Sustainable development, bananas and watermelons	P 9
16	Pascal Gagneux	Chimpanzees: endangered relatives or good-to-eat	E-3
18	Woodruff	Climate change: will it bring us to our senses?	P 4
20	Strum	The new media: connecting to conservation	E-5, E-6
23	Paul Dayton	Marine conservation	E-4
25		Midterm exam 2 (30%)	
27	Woodruff	Futures of life	
30		<i>Memorial Day Holiday</i>	
June 1	Western	Possible worlds	P 9; E-6
3	Strum	Panel discussion	
6	Wednesday	Final exam (10%) 8 a.m. – 11 a.m. (10%)	

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INSTRUCTORS

Professor **David Woodruff**, Ecology, Behavior & Evolution Section (EBE), Division of Biological Sciences

Office hours: Fridays 1:30 – 3:00 p.m. and by appointment, in Muir Biology 2258

Regular consultations: dwoodruff@ucsd.edu

Professor **Shirley Strum**, Department of Anthropology

Office hours: Mon 11:30-12:30; Wed 10:30-12:30 and by appointment, in SSB 297

VENUES

Lectures: at 10 am MWF Peterson Hall 110

Sections: Listed below. No sections in Week 1. *Please attend Film “Home” (a feature film that has fantastic views of Earth from the air) on Wednesday March 31 at 6-7:30 pm [Center Hall 212].* Section meeting times and places are announced below. Sign up for a Section on Wednesday March 31 beginning at 8:00 am on <https://sections.ucsd.edu>

GRADES

There will be **two** 50-minute exams given during regularly scheduled lecture times on April 22 and May 25 and a final exam on Monday June 6 at 8:00 am. THERE ARE NO MAKE-UP EXAMS IN THIS COURSE - EXAMS ARE OFFERED AT THESE SCHEDULED TIMES ONLY. These exams are worth 30%, 30% and 10% of the course grade, respectively. The remaining 30% of the grade is awarded for Case Study reports and participation in the section meetings (see below). Letter grades will be determined by the instructors based on their assessment of the difficulty of the exams and the effort put in by the class as a whole. In the last three years the percentage of students receiving each letter grade and the cut-off scores out of 100 were approximately: A 22%/86, B 31%/76-79, C 40%/58. The median score (76.6% in 2007, 75.2 in 2008, 78.8 in 2009) will be a C+ and not a B-. We will try to keep the course at the same level of difficulty as last year but it is likely that the grade proportions and cut off values will differ. Students caught cheating will receive an F in the entire course.

POLICY ON REGRADES

Regrade requests are handled on a student-friendly basis within one week of a test, or assignment being returned, if the exam was written in pen. After that the score is considered final. First, simply write “please regrade Q #” on the front page and give it to your TA at the next lecture or section meeting. Don’t write anything else on the paper. If your TA has time they will look at your answer immediately and advise you. Whether or not they think your request has any merit they will pass your test to the grader of the particular Q unless you withdraw your request. The original grader will then review their score and pass it to the professor marked “no change” or showing some change. The professors review all grade change requests before passing the papers back to the student after lecture or during office hours. Appeals to the grader’s written decisions can be made directly to the professor after the initial review. Please note that a regrade request allows the professor to audit the quality of the grading. They will review scores on answers to other questions to ensure that you have the correct score. They reserve the right to correct any grading errors discovered. Please understand that very rarely [1 case in 1,000] this results in a score being lowered. Two things to remember: first, you have one week to

request regrades and second, most regrade requests are resolved satisfactorily by working closely with your TA.

TEXTBOOKS

There are **two** required books: a textbook for the lectures and a more focused volume for your Case Study Section. Buy the textbook immediately but wait until your Case Study assignment is confirmed before buying the second book. All books are on sale at the UCSD Price Center Bookstore and the used copies sell quickly. The following prices are approximate.

Textbook. Primack, R. 2008. *A Primer of Conservation Biology*, Sinauer. 4th ed. \$50/paperback

Case Studies Books: (after you are assigned to a Case Study later this week buy only the book listed for your section)

E-reader. We have 6-7 other readings (articles or chapters) on the WebCT site linked to specific lectures (see lecture schedule). There will also be supplementary readings for those who are interested. These won't be "required" [meaning = examinable].

2011 CASE STUDIES

Sections in this course run as independent but related explorations of important conservation issues organized around "Case Studies". Generally, 15-20 students will work together on a specific topic. Each student is also responsible for his or her own Case Study research paper/report and a portion of the joint Case Study Report. The results of all case studies are presented to the whole class at the end of the quarter during the **Panel Discussion**. 30% of the course grade is based on your Case Study work: 20% for the individual student's paper/report and 10% for participation in the section discussion and activities. The Case Study groups will meet weekly during "Section meetings."

Section/Case Study meetings are not held during the first week of the quarter. Case Study sign up will be on March 31 beginning at 8:00 am. You will sign up on <https://sections.ucsd.edu> for a specific section based on your scheduling constraints and your topic preference. If you sign up promptly you are likely to get your first or second choice of meeting time/topic. Be sure to have your class schedule sorted out by Wednesday morning. Assignments will be confirmed with an announcement on WebCT. Section meetings will begin in week 2 and you should expect to devote 3-4 hours/week to the Case Study. The 2011 Case Study topics and meeting times are shown below. Case Studies Books: please wait until the section assignments are confirmed; each student buys only one book, the one relevant to their section. Books are at the Price Center Bookstore but can be obtained other places. Very approximate prices are shown below; books can also be ordered from Amazon.com and half.com.

1. **Environmental ethics.**

Conservation fund raising and conservation policies increasingly employ ethical arguments that have emerged only recently in the "developed" world. Other cultures and other historical periods have quite different ethical perspectives about nature, about humans and about conservation. This case study explores the development of environmental ethics and their place in conservation action (in our own society, in other cultures and in international conservation policy). Suggested topics: history of the environmental movement in the US and elsewhere, animal rights and wildlife conservation, the conflict between the rights of nature and the rights of humans, diverse ways to value nature, Aldo Leopold and the Land

Ethic, John Muir and preservationism, Deep Ecology, the Ecological Indian or should we borrow ethics from other cultures?

Derr, Patrick and Edward McNamara, 2003, *Case Studies in Environmental Ethics*. paperback (\$29)

2. National Parks and habitat conservation.

National Parks and Protected Areas are a once popular and now controversial conservation solution. Problems range from being biological islands to alienating the very people upon whom their future existence depends. Some even claim that parks like Yellowstone, America's first National Park, are being destroyed by the people assigned to protect it. This case study examines National Parks and the role they play in habitat conservation. Are national park policies and enabling legislation appropriate to serve human needs and conserve species biodiversity and ecosystem functions?

Chase, Alston, 1987, *Playing God in Yellowstone: The destruction of America's first national park*. Harvest Books. Paperback. (approx \$20)

3. Zoos and single species conservation

The section examines the history and the roles of zoos in species-level conservation efforts. Topics include the genetic, demographic and behavioral effects of captive management. What species are best conserved in zoos? Are zoos equal to the task? What impact do zoo organizations, and the Conservation Breeding Specialist Group of IUCN, have on cooperative breeding programs? What does the public want of zoos?

Hancocks, D. 2001. *A Different Nature*. UC Press (approx. \$20)

4. Marine conservation

This section explores the wide range of issues concerning marine species and habitat conservation including the special problems of overhunting of whales and fish, marine reserves, coral reef collapse, coastal dead zones and land-sea interactions.

Ellis, Richard 2003. *The Empty Ocean*. Island Press. Paperback (\$16)

5. Media

The media has played an important role in raising public awareness about the current biodiversity crisis. Recently, this role has expanded as the media becomes the main source of information and major opinion maker. The media has also been a vehicle for the greening of advertising. This section looks at a variety of media to explore how they influence us and whether the media is an honest broker for conservation. Readings: current magazines, newspapers, etc.

Davis, Susan, 1997. *Spectacular Nature*, University of California Press. Paperback

6. Ecotourism

Travel and tourism is the world's largest industry in terms of people involved, income generated and employment capacity generating over \$4 trillion annually. Wildlife tourism is one of the highest earners of foreign exchange in many developing countries. Ecotourism is "responsible travel to natural areas that conserves the environment and improves the well-being of local people" or "travel to fragile, pristine and usually protected areas that strives to be low impact and usually small scale ... and helps educate the traveler, provides funds for conservation and directly benefits ... local communities". These are all worthy goals but difficult to implement. Ecotourism can

even threaten biodiversity rather than save it. This section explores the origins and development of ecotourism to evaluate its potential as a conservation tool.
Honey, Martha, 2008. *Ecotourism and Sustainable Development*. Island Press. Paperback. (approx \$26)

7. Impacts of climate change on San Diego

Focusing on wildlife and wildlife habitat, this Section will read and discuss the reports produced by the San Diego Foundation in 2008:

San Diego's Changing Climate: A Regional Wake-up Call. A summary of the Focus 2050 Study presented by the San Diego Foundation

The full text of the Focus 2050 Summary Assessment, and the core scientific working papers that comprise this analysis, are online at www.sdfoundation.org. Students wanting a 200-page illustrated and simplified guide to the 4,000+ pages of findings of findings of the *IPCC Fourth Assessment Report* (which you can download for free) may want to buy:

Mann, M. E. & Kump, L. R. 2009. *Dire Predictions. Understanding Global Warming*. Pearson/DK, New York.

8. Sustainable Agriculture and Conservation

What we eat, where it comes from, who grows it and how it is grown is *invisibly* linked to major conservation issues. These include the sustainability of industrial agriculture, its impact on the environment and on people through unfair subsidies that contribute to poverty in the developing poverty and limit options for conservation of biodiversity (not to mention your health).

Pollan, Michael, 2007, *An Omnivore's Dilemma*. Paperback (\$10)

In lieu of Sections during the first week of the quarter, we invite you to see Yann Arthus-Bertrand's fabulous feature film "HOME" (www.goodplanet.org) on March 30, 2011 from 6 to 7:30pm (*Center Hall 212*). See Film Festival details in course schedule for other films.

2011 Case Studies

Sign up for Sections and Case Study groups on <https://sections.ucsd.edu> beginning at 8:00 am Wednesday. To do this you will need to know

1. What times are you available to attend section?
2. Which Case Studies topics you prefer?

Ethics	Food	Zoos	National Parks
Ecotourism	Marine	Media	Climate change

A01 MON 3:00p - 3:50p WLH 2208 Ethics
A02 MON 4:00p - 4:50p WLH 2208 Ecotourism
A03 WED 5:00p - 5:50p WLH 2209 Food
A04 WED 6:00p - 6:50p WLH 2209 Climate
A05 Th 2:00p - 2:50p SOLIS 111 Zoos
A06 Th 3:00p - 3:50p SOLIS 111 Zoos
A07 FRI 12:00p - 12:50p HSS 2152 Marine
A08 FRI 1:00p - 1:50p HSS 2152 Media
A09 Tu 09:00a - 09:50a WLH 2114 National Parks
A10 Tu 4:00p - 4:50p U413-1 Marine

WARNING: SECTIONS FILL ON A FIRST-COME-FIRST-SERVED BASIS.

Sections start next week. Section paperback books are on sale at bookstore or from other booksellers. Buy only the one relevant to your Case Study.

WebCT: BIEB 176 AND ANBI 132 are listed on WebCT under BIEB176. This IS our main way of communicating with you: announcements, lecture slides, information about sections and exams. *Be certain to check WebCT regularly.*