

**LIFE SCIENCES 1**  
**EVOLUTION, ECOLOGY AND BIODIVERSITY**  
**SPRING 2008**

*LECTURE: 1.1 M W F 10:00 – 10:50am, La Kretz 110*  
*1.2 M W F 12:00 – 12:50pm, La Kretz 110*

**Instructor: Dr. Rebecca Shipe**  
**Office Hrs: Tu 9:30-10:30, F 11-12**  
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**Instructor: Dr. Cheryl Ann Zimmer**  
**Office Hrs: M 4-5, W 1:30-2:30**  
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<b>DATE</b>	<b>LECTURE TOPIC</b>	<b>READING FROM TEXT</b>
Mon Mar. 31	Introduction	pp. 18-24
Wed Apr. 2	Global Warming: What a Mess!	-----
Fri Apr. 4	Evolution and Natural Selection	pp. 452-459
<b>Demonstration 1. The Scientific Method, Research Tools, and Techniques</b>		
Mon Apr. 7	Natural Selection and Genetics	pp. 248-258
Wed Apr. 9	Agents of Evolution	pp. 472-479
Fri Apr. 11	Speciation and Classification	pp. 487-498
<b>Demonstration 2. Natural Selection</b>		
Mon Apr. 14	Physical Environment	-----
Wed Apr. 16	Origin of Life	pp. 507-510
<b>FIRST MIDTERM EXAM (5-7 pm)</b>		
Fri Apr. 18	Prokaryotes and Energy Acquisition	chapter 27
<b>Demonstration 3. The Fossil Record and Horse Evolution</b>		
Mon Apr. 21	Multicellularity	-----
Wed Apr. 23	Protists and Energy Strategies	pp. 575-579
Fri Apr. 25	Marine Fisheries and Resource Use	-----
<b>Demonstration 4. The Microbial World</b>		
Mon Apr. 29	Fungi and Energy Strategies	chapter 31
Wed Apr. 30	Plant Evolution	pp. 600-612, 618-628
Fri May 2	Plant Structure/Function	-----
<b>Demonstration 5. The Photosynthetic World: From Algae to Angiosperms</b>		
Mon May 5	Introduction: A View from the Sea	-----
Wed May 7	Animals: Characteristics and Phylogenies	chapter 32
Fri May 9	Sponges	pp. 666-671
<b>Demonstration 6. Shoots of Vascular Plants: The Botanical Garden</b>		
Mon May 12	Cnidarians	pp. 671-673
Wed May 14	Flatworms and Lophophorates	pp. 674-677
<b>SECOND MIDTERM EXAM (5-7 pm)</b>		
Fri May 16	Mollusks	pp. 677-680
<b>Demonstration 7. The Fungi &amp; Animal Diversity I: Sponges, Cnidarians &amp; Worms</b>		
Mon May 19	Annelids	pp. 680-682
Wed May 21	Nematodes and Arthropods I	pp. 683-687
Fri May 23	Arthropods II	pp. 688-691
<b>Demonstration 8. Animal Diversity II: Mollusks, Arthropods &amp; Echinoderms</b>		
Mon May 26	HOLIDAY - NO CLASS	
Wed May 28	Arthropods III	pp. 692
Fri May 30	Echinoderms	pp. 693-695
<b>Demonstration 9. Animal Diversity III: Phylum Chordata</b>		

Mon	Jun. 2	Chordates I	chapter 34
Wed	Jun. 4	Chordates II	chapter 34
Fri	Jun. 6	Preserving Nature	-----
<b>Demonstration 10. Conservation of Biological Diversity</b>			

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**FINAL EXAM: Thursday, June 12, 2008, 6:30-9:30pm**

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**REQUIRED BOOKS**

*Campbell and Reece Biology, 8<sup>th</sup> Edition (CD not necessary)*

*Pflugel (8<sup>th</sup> edition) Life Sciences 1: Evolution, Ecology and Biodiversity (laboratory manual)*

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**ADMINISTRATIVE OFFICE: Life Sciences 2305, Phone: (310) 825-6614, lscore@lifesci.ucla.edu**

All questions or problems of an administrative nature such as enrollment and missing exams should be addressed to the administrative coordinators for the Life Sciences Core Curriculum: Lily and Mark. Office hours are M-F, 8:00 A.M. to 4:00 P.M.

**DEMONSTRATION SECTIONS**

The weekly two-hour demonstration sections allow you to make direct observations and contact with materials and organisms discussed in lecture and in the book. The demonstration sections are an essential and crucial component of the course; **you are required to attend**. You should carefully go over the reading for each week's demonstration before coming to class. There will be weekly quizzes given in sections.

**Enrollment** for these sections is confirmed during the first week of class. **TO ENSURE THAT YOU ARE ENROLLED, YOU MUST ATTEND THE FIRST WEEK'S DEMONSTRATION SECTION. BE ON TIME.** You should attend only the section in which you are enrolled. Should you have to miss a section due to illness or other compelling reasons, it may be possible for you to attend another section on a one-time basis. If you find yourself in this situation, please check with the administrative office in LS 2305 and make sure you identify yourself to the TA of the section you do attend. The demo website is <http://lslab.lscore.ucla.edu>

**EXAMS**

Exams are given **ONLY** at the times and dates scheduled in the course outline. There are **NO** make-up exams. **Be aware that both Midterms and the Final Exam are in the evening.** If you miss an exam due to serious illness, emergency, or other legitimate reason, it is your responsibility to contact the administrative office (310) 825-6614, **PRIOR TO** the exam. Exams will cover material from lecture, demonstration, CPR and reading. The Final Exam is comprehensive and will cover all material presented since the beginning of the course.

**GRADING**

<b>FIRST MIDTERM EXAM</b>	<b>100 POINTS</b>	<b>April 16, 2008</b>
<b>SECOND MIDTERM EXAM</b>	<b>100 POINTS</b>	<b>May 14, 2008</b>
<b>FINAL EXAM</b>	<b>200 POINTS</b>	<b>June 12, 2008</b>
<b><u>DEMONSTRATION</u></b>	<b><u>100 POINTS</u></b>	
<b>TOTAL</b>	<b>500 POINTS</b>	