

Bio Sci 136 Evolutionary Paleobiology

Course Syllabus Winter 2005-2006*

Date	Topic	Readings
Tues 1/10	1. Introduction and foundation: What good are fossils?	<i>Readings Week 1</i> Text: Pp. 1-35
Thurs 1/12	2. The fossil record -DISCUSSION	
Tues 1/17	3. Fossils and phylogeny	<i>Readings Week 2</i>
Thurs 1/19	4. History of evolution	
Tues 1/24	5. Evolution in extant populations	<i>Readings Week 3</i>
Thurs 1/26	6. Origin of life, Precambrian life	Text: Pp. 36-51
Tues 1/31	7. Cambrian explosion	
Thurs 2/2	MIDTERM EXAM	Text: Pp. 51-63
Tues 2/7	8. Life in Water	<i>Readings Week 5</i>
Thurs 2/9	9. Life on Land	Text: Pp.65-98
Tues 2/14	10. Life in the Air	<i>Readings Week 6</i>
Thurs 2/16	11. Speciation	Text: Pp. 143-148
Tues 2/21	12. Evolutionary constraints and innovation	<i>Readings Week 7</i> Text: Pp. 168-217
Thurs 2/23	13. Development and evolution PAPER TOPICS DUE 2/24/00 (Fri)	
Tues 2/28	14. Body size	<i>Readings Week 8</i> Text: Pp. 126-162
Thurs 3/2	15. Climatic change	
Tues 3/7	16. Evolutionary rates	<i>Readings Week 9</i>
Thurs 3/9	17. Mass extinctions PAPER DUE, 5 PM	Text: Pp. 98-125; 162-167
Tues 3/14	18. Biotic turnover	<i>Readings Week 10</i> Text: Pp. 218-251
Thurs 3/16	19. Molecular Paleontology	

FINAL EXAM: Monday, March 20; 3:30 - 6:30 PM

Text: Stephen J. Gould (ed). 2001. *The Book of Life*. W.W. Norton & Co. 256 pp.

Course Readings: Weekly readings available on CourseWork website:

<https://coursework.stanford.edu/>

*subject to modification