

OSPSANTG 25 Evolution & Ecology of the South American Biota

Course Syllabus Fall 2007*
Instructor: Prof. E. A. Hadly

Date	Topic	Readings
Thurs. Sept 27	1-Introduction to Course	Eva <i>et al.</i> 2004 Humphries 2000
Fri. Sept 28	FIELD TRIP TO NATURAL HISTORY MUSEUM	Focus on Antarctica and Mylodon Cave exhibits
Tues. Oct 2	2-History of Biology in SA: Darwin, Wallace, Humboldt, Simpson, Ameghinos	Wallace 1859 (excerpt) Darwin 1839 (excerpts)
Thurs. Oct 4	3-The Physical Setting: Geology and Climate	Woodward <i>et al.</i> 2004 Raymo & Ruddiman 1992 Pennington <i>et al.</i> 2004
Tues. Oct 9	4-Phylogenies: Molecules and Morphology	Dyke 2003 Farias <i>et al.</i> 2000 Pramuk 2006
Thurs. Oct 11	5-Microevolution: Vicariance vs. Dispersal	Burns <i>et al.</i> 2002 Graham <i>et al.</i> 2004 Handford 1983
Tues. Oct 16	6-Macroevoolution: Speciation and Extinction	Jablonski 2005 Alroy 2000 Vuilleumier 1984
Thurs. Oct 18	7-Gondwanan Legacy: The Ancestors	Hembree 2006 Heads 2006 Van Tuinen <i>et al.</i> 1998
Tues. Oct 23	8-Mammalian Diversity	Murphy <i>et al.</i> 2001 Nilsson <i>et al.</i> 2003 Croft 2001
Thurs. Oct 25	MIDTERM EXAM	
Tues. Oct 30	9-Oligocene Events: Rafting from Africa? <i>Turn in paper topic in class</i>	Flynn <i>et al.</i> 2003 Poux 2006 Pennington & Dick 2004 Heinicke <i>et al.</i> 2007
Tues. Nov 6	10-The Miocene: Lifting Up and Drying out	Argot 2004 Ashworth & Thompson 2003 Hamilton <i>et al.</i> 2001 Hartley 2003 Wroe <i>et al.</i> 2004
Thurs. Nov 8	11-Great American Biotic Interchange	Koepfli <i>et al.</i> 2007 MacFadden <i>et al.</i> 2007 O'Dea <i>et al.</i> 2007 Webb 1991

Thurs Nov 8 -- Sun Nov 11	FIELD TRIP TO LAKE DISTRICT AND MONTEVERDE	Dillehay & Collins 1988 Meltzer <i>et al.</i> 1997
Tuesday Nov 13	12-Pleistocene Events	Barnosky <i>et al.</i> 2004 Bonaccorso <i>et al.</i> 2006 Schurr & Sherry 2004 Wuster <i>et al.</i> 2005
Thursday Nov 15	13-The Holocene: Development of Modern Biomes <i>Peer review guidelines handout</i>	Antoine <i>et al.</i> 2006 Chan <i>et al.</i> 2006 Duellman 1988 Hawkins <i>et al.</i> 2006 Young <i>et al.</i> 2002
Tuesday Nov 20	IN CLASS ASSIGNMENT Peer Review Exchange	
Thursday Nov 22	14-Human Impacts	Hunt 2007 Lupo <i>et al.</i> 2006 McConnell <i>et al.</i> 2007 Storey <i>et al.</i> 2007
Tuesday Nov 27	15-Conservation Biology in South America <i>Final paper due by 5 PM</i>	Barnosky <i>et al.</i> 2001 Salazar 2007 Soto <i>et al.</i> 2006 Travaini <i>et al.</i> 1998
Thursday Nov 30	ORAL PRESENTATIONS	
Tuesday Dec 4	ORAL PRESENTATIONS	
Thursday Dec 6	ORAL PRESENTATIONS	

FINAL EXAM 11 DECEMBER @ 9:30 AM

**subject to modification.*

Background References

Conway, W. 2005. **Act III in Patagonia**. Island Press, Washington, DC.

Simpson, G. G. 1980. **Splendid Isolation: The Curious History of South American Mammals**. Yale University Press, New Haven.