

ANBE/BIOL 415 – CONSERVATION BIOLOGY
DAILY ACTIVITIES AUTUMN 2008

DATE	DAY	TOPIC/READING ASSIGNMENTS
Aug 27	Wed	Introduction & Expectations. Video: All Things Are Connected (13 min)
29	Fri	<p>I. Major Issues that Define the Discipline</p> <p>What is Conservation Biology? Primack, R.B. 2006. Chapter 1. Leopold, A. 1933. The Conservation Ethic. <i>Journal of Forestry</i> 31: 634-643. Leopold, A.C. 2004. Living with the Land Ethic. <i>BioScience</i> 54: 149-154.</p>
Sep 1	Mon	<p>What is Biological Diversity: Species Diversity, Genetic Diversity, and Ecosystem Diversity? Primack, R.B. 2006. Chapter 2.</p>
3	Wed	<p>Where is the World's Biological Diversity Found? Primack, R.B. 2006. Chapter 3.</p>
5	Fri	<p>II. Valuing Biological Diversity</p> <p>Ecological Economics and Direct Economic Values Primack, R.B. 2006. Chapter 4. Balmford, A., A. Bruner, P. Cooper, R. Costanza, S. Farber, R.E. Green, M. Jenkins, P. Jefferiss, V. Jessamy, J. Madden, K. Munro, N. Myers, S. Naeem, J. Paavola, M. Rayment, S. Rosendo, J. Roughgarden, K. Trumper, and R.K. Turner. 2002. Economic reasons for conserving wild nature. <i>Science</i> 297: 950-953. Adams, W.M., D. Brockington, J. Dyson, and B. Vira. 2003. Managing tragedies: understanding conflict over common pool resources. <i>Science</i> 302: 1915-1916.</p>
8	Mon	<p>Indirect Economic Values Primack, R.B. 2006. Chapter 5.</p>
10	Wed	<p>Ethical Values Primack, R.B. 2006. Chapter 6.</p>
		JOURNAL SUMMARY 1 DUE
12	Fri	Case Study – Islands in Time: The Story of Florida Scrub – Professor Abrahamson
15	Mon	STUDENT-LED DISCUSSION 1 – Florida's Lake Wales Ridge Case Study
17	Wed	Ethical Values
		JOURNAL SUMMARY 2 DUE

DATE	DAY	TOPIC/READING ASSIGNMENTS
19	Fri	<p>III. Threats to Biological Diversity</p> <p>Extinction Primack, R.B. 2006. Chapter 7. Myers, N., R.A. Mittermeier, C.G. Mittermeier, G.A.B. da Fonseca, and J. Kent. 2000. Biodiversity hotspots for conservation priorities. <i>Nature</i> 403: 853-858. Harris, G.M., C.N. Jenkins, and S.L. Pimm. 2005. Refining biodiversity conservation priorities. <i>Conservation Biology</i> 19: 1957-1968.</p>
22	Mon	STUDENT-LED DISCUSSION 2 – Environmental Ethics Case Study
24	Wed	<p>Vulnerability to Extinction Habitat Destruction, Fragmentation, Degradation, and Global Climate Change Primack, R.B. 2006. Chapters 8 and 9.</p>
26	Fri	<p>Habitat Destruction, Fragmentation, Degradation, and Global Climate Change</p> <p>JOURNAL SUMMARY 3 DUE</p>
29	Mon	Case Study – <i>Galapagos: Islands in Time</i> – Professor Abrahamson
Oct 1	Wed	STUDENT-LED DISCUSSION 3 – The Galapagos Islands Case Study
3	Fri	<p>Special In-Class Presentation – Professor David Maehr, University of Kentucky, <i>Title?</i> in class. Biology Department Seminar – Professor David Maehr, University of Kentucky, <i>Title?</i> Noon, Rooke 116.</p> <p>TERM PROJECT OUTLINE AND BIBLIOGRAPHY DUE</p>
6	Mon	<p>Overexploitation, Invasive Species, and Disease Primack, R.B. 2006. Chapter 10.</p>
8	Wed	<p>IV. Conservation at the Population and Species Levels</p> <p>Problems of Small Populations/Applied Population Biology Primack, R.B. 2006. Chapters 11 & 12. SPECIAL LECTURE SUMMARY DUE</p>
10	Fri	<u>MIDTERM EXAMINATION</u>
13	Mon	Fall Recess
15	Wed	<p>Establishing New Populations <i>Ex Situ</i> Conservation Strategies Primack, R.B. 2006. Chapters 13 and 14.</p>
17	Fri	Case Study – <i>Colorado River and the Colorado Plateau</i> – Professor Abrahamson

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20	Mon	STUDENT-LED DISCUSSION 4 – Colorado River and the Colorado Plateau Case Study
22	Wed	V. Practical Applications Establishing Protected Areas Primack, R.B. 2006. Chapter 15. Arendt, R.G., A.E. Hutchinson, H.M. Harper, and S. Kuter. 1997. Growing greener: putting conservation into local codes. <i>Natural Lands Trust</i> . 17 pp.
24	Fri	Designing Networks of Protected Areas: Landscape Ecology Primack, R.B. 2006. Chapter 16.
27	Mon	STUDENT-LED DISCUSSION 5 – Montandon Wetlands Restoration Case Study
29	Wed	Managing Protected Areas Primack, R.B. 2006. Chapter 17. LETTER TO CONGRESS OR A STATE LEGISLATURE DUE
31	Fri	Outside Protected Areas Primack, R.B. 2006. Chapter 18.
Nov 3	Mon	STUDENT-LED DISCUSSION 6 – Arctic National Wildlife Refuge Case Study
5	Wed	Restoration Ecology Primack, R.B. 2006. Chapter 19.
7	Fri	VI. Conservation and Human Societies Conservation and Sustainable Development Primack, R.B. 2006. Chapter 20. McMichael, A.J., C.D. Butler, and C. Folke. 2003. New visions for addressing sustainability. <i>Science</i> 302: 1919-1920.
10	Mon	STUDENT-LED DISCUSSION 7 – Sustainability of the Tropics Case Study
12	Wed	Video: Green Plans
14	Fri	International Approach to Conservation Primack, R.B. 2006. Chapter 21.
17	Mon	Agenda for the Future Primack, R.B. 2006. Chapter 22. <i>On Making an Oral Presentation – Dr. Abrahamson</i>
19	Wed	STUDENT-LED DISCUSSION 8 – Green Plans Case Study
21	Fri	TERM-PROJECT PRESENTATIONS 1 (3 – 15-min Presentations)

DATE	DAY	TOPICS/READING ASSIGNMENTS
24	Mon	TERM-PROJECT PRESENTATIONS 2 (3 – 15-min Presentations)
26	Wed	Thanksgiving Recess
28	Fri	Thanksgiving Recess
Dec 1	Mon	TERM-PROJECT PRESENTATIONS 3 (3 – 15-min Presentations)
3	Wed	TERM-PROJECT PRESENTATIONS 4 (3 – 15-min Presentations)
5	Fri	TERM-PROJECT PRESENTATIONS 5 (3 – 15-min Presentations)
8	Mon	TERM-PROJECT PRESENTATIONS 6 (1 – 15-min Presentation, Course Summary, Course Evaluations) <u>WRITTEN TERM PROJECT DUE</u>
11-18		<u>FINAL EXAMINATION (COMPREHENSIVE)</u>
