
LECTURE OUTLINE - EXTINCTION OF SPECIES, FALL 2011

Lecture	Textbook Readings	
Introduction to Species and Extinction		
Fri, Sept 2	Class introduction and need for species conservation	
Mon, Sept 5	Labor Day	
Wed, Sept 7	Species - the cornerstones of biodiversity	pages 22-33
Fri, Sept 9	How are species distributed geographically?	
Mon, Sept 12	Measuring species diversity: how many species are on earth?	
Wed, Sept 14	The origin of species: evolution and speciation	
Fri, Sept 16	Extinction: a natural versus human-caused process	
Mon, Sept 19	Why do we care? Intrinsic and utilitarian values	pages 40-63
The "Evil Sextet" of Human-caused Extinctions		
Wed, Sept 21	Overexploitation of species	pages 184-203
Fri, Sept 23	Case study: dolphins, tuna, and turtles	
Mon, Sept 26	Habitat loss, fragmentation, and degradation	pages 150-182
Wed, Sept 28	Case study: sloths in Costa Rica	
Fri, Sept 30	Exotic and overabundant species	pages 205-222
Mon, Oct 3	Case study: cats and their impacts	
Wed, Oct 5	Climate change, a looming crisis	
Fri, Oct 7	Pollution	
Mon, Oct 10	Emerging and catastrophic diseases	
Wed, Oct 12	EXAM 1	
Conservation Strategies for Endangered Species		
Fri, Oct 14	Identifying endangered species	pages 130-148
Mon, Oct 17	Captive breeding for endangered species	
Wed, Oct 19	Conservation of endangered species in the wild	pages 310-325
Fri, Oct 21	Red-cockaded woopeckers and Atwaters prairie chickens	
Mon, Oct 24	Demographic factors that cause extinction	
Wed, Oct 26		
Fri, Oct 28	Diagnosing the cause of endangerment	pages 281-308
Conservation of Genetic Diversity		
Mon, Oct 31	What is genetic variaton and why is it important?	pages 86-106
Wed, Nov 2	Inbreeding and extinction	
Fri, Nov 4	Hybridization and "genetic" extinction	
Mon, Nov 7	Defining units for conservation	
Wed, Nov 9	Case study: molecular methods in marten research	
Fri, Nov 11	EXAM 2	
Conservation of Ecosystems		
Mon, Nov 14	Role of species in ecosystem conservation	pages 252-279
Wed, Nov 16	Integrating species and ecoystem management	
Fri, Nov 18	Protected areas: history, design and management	pages 226-247

Human and Political Dimensions in Species Conservation

pages 372-387

Mon, Nov 21	Role of governments in conservation
Wed, Nov 23	Endangered Species Act
Fri, Nov 25	Thanksgiving Break
Mon, Nov 28	Management of endangered species on private lands
Wed, Nov 30	Human dimensions in carnivore conservation
Fri, Dec 2	Community-based conservation
Mon, Dec 5	Role of conservation organizations
Wed, Dec 7	The Nature Conservancy
Fri, Dec 9	Sustainability I
Mon, Dec 12	Sustainability II
Wed, Dec 14	The future: despair, hope and making a difference

Mon, Dec 19 Final Exam (10:05 am - 12:05 pm)