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BIOL 405.01: Animal Behavior

Unknown

University of Montana - Missoula

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Syllabus for Animal Behavior
Text: John Alcock, Animal Behavior (7th edition)

<i>Week of</i>	<i>Lecture Topic</i>	<i>Text</i>	<i>Additional Reading</i>
28 Jan	Prospectus and Overview: Sensory Worlds	Chapter 1	Von Uexküll's tick Crab spiders manipulate flower signals
4 Feb	Natural Selection and Behavior: Canid Behavior	Chapter 2	The tragedy of the commons A shaggy dog history Domestication of social cognition in dogs Genetic evidence for an East Asian origin of domestic dogs
7 Feb: Special Biology Seminar, Dr. David McDonald, University of Wyoming Two Riddles of the Lek and One Implausible Solution (Suggested Reading: McDonald and Potts 1994) www.uwyo.edu/dbcmd/mdc.html			
11 Feb	Genes and Behavior: FDs, FAPs, and IRMs!	Chapter 3	
18 Feb	Learning and Behavior	Chapter 4	Manufacture and use of hook-tools by New Caledonian crows Shaping of hooks in New Caledonian crows Laterality in tool manufacture by crows
20 Feb	Barry Brown: Finding what you need in an age of information overload Mansfield Library, Student Learning Center, Level 2		
21 Feb: Special Biology Seminar, Dr. Scott McWilliams Nutritional Ecology of Birds During Migration			
25 Feb	Nerves and Behavior	Chapter 5	
27 Feb	Test 1 – in class		
4 March	Nerves and Behavior		
11 March	Sound, Bioacoustics and Behavior	To be provided	
12 March: Special Biology Seminar, Dr. Peggy Hill Mole Cricket Communication: Chirping and Vibration Signals in Lek Mating Systems			
18 March	Signals and Communication	Chapter 10	Honeyguides and honey gatherers Aggressive mimicry in fireflies
24 March	Spring Break		
1 April	Predator-prey Arms Races	Chapter 7	Frequency-dependent Batesian mimicry Multiple benefits of gregariousness in aposematic aggregations Visual predators select for crypticity and polymorphism in virtual prey
8 April	Foraging Behavior	Chapter 8	Individuals in an osprey colony discriminate between high and low quality information
15 April	Social Behavior: Living Alone, living in Groups	Chapter 14	The Evolution of cooperation <i>Homo reciprocans</i> Altruistic punishment in humans Selfish sentinels Cooperative behavior in meerkats
22 April	What You Have All Been Waiting For: SEX	Chapter 11	Female choice selects for extreme tail length in a widowbird Improved growth and survival of offspring of peacocks with more elaborate trains Sexual stereotypes Cichlid fish diversity threatened by eutrophication that curbs sexual selection
29 April	Mating Systems	Chapter 12	The rock-paper-scissors game and the evolution of alternative male strategies
2 May: Special Biology Seminar, Dr. Chris Foote Sexual Selection and Speciation in Sympatric Morphs of Sockeye Salmon			
6 May	Human Behavior	Chapter 15	
8 May	Test 2 – in class		