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BIOL 304.01: Ornithology

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Biology 304, Ornithology
TENTATIVE COURSE SYLLABUS, Spring 2000

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HS 203

T 10-12

Caleb Putnam

HS 203

TBA

day	lecture topic	reading	laboratory/field
Jan 24	Course overview; enrollment	xxi-xxvii*	
26	Diversity of birds	3-20*; 13-17**	Introduction; Taxonomy
28	<i>touch base (TB)</i> ; Origin of birds	21-43*; 17-22**	
Jan 31	Speciation; zoogeography	527-552*; 38-41**	Topography
Feb 2	Bird flight I	93-113*	
4	<i>TB</i> ; Bird flight II		
7	Integument and molt	65-92*	Feathers
9	Plumage coloration I	203-232*	
11	<i>TB</i> ; Plumage coloration II		
14	Special senses I	186-202*	Osteology
16	Special senses II		
18	EXAM I		
21	HOLIDAY		Internal Anatomy I
23	Organ systems	115-173*	
25	<i>TB</i> ; Brains and Behavior	177-185*	
28	Migration: patterns, ultimate causes	287-307*	Internal Anatomy II
Mar 1	Migration: proximate causes	263-285*	
3	<i>TB</i> ; Orientation and navigation	309-325*	
6	Territoriality	328-333*	TH Eve. EXAM I
8	Coloniality		
10	<i>TB</i> ; Mating systems I		

day	lecture topic	reading	laboratory/field
13	Mating systems II		Birdwatching hints & Campus walk
15	Vocal communication I	233-260*	
17	<i>TB</i> ; Vocal communication II		
20	SPRING BREAK		SPRING BREAK
22	SPRING BREAK		
24	SPRING BREAK		
27	Eggs, nests	367-391*	Field Trip, 7-11 am (Sat. trip = 1 Apr)
29	Brood parasitism	458-465*	
31	EXAM II		
Apr 3	Clutch size	364-366; 496-502*	Bird ID review
5	Incubation	391-401*	
7	<i>TB</i> ; Parental care; sibling rivalry	425-457*	
10	Helpers; communal breeding	466-477*	Field trip, 7-11 am (Sat. trip = 15 Apr)
12	Foraging ecology	163-173; 335-346*	
14	<i>TB</i> ; Habitat selection		
17	Cavity nesters		Bird ID review
19	Population biology	507-525*	
21	<i>TB</i> ; Niche theory		
24	Competition; coexistence	561-572*	TH Eve. EXAM II
26	Patterns of bird diversity; islands	553-564*	Field trip, 6-11 am
28	<i>TB</i> ; Island biogeography	573-580*	(Sat. trip = 29 Apr)
May 1	Forest fragmentation		Field Quiz, 7-11 am (Sat. trip = 6 May)
3	Landscape ecology		
5	<i>TB</i> ; Conservation issues	581-616*	
8	FINAL EXAM, 10am		

* page numbers from Gill (1994. Ornithology. W. H. Freeman and Co., New York, NY)

** page numbers from Proctor and Lynch (1993. Manual of ornithology: avian structure and function. Yale Univ. Press, New Haven, CT)