

**IB 146LF
BEHAVIORAL ECOLOGY LECTURE
SPRING 2015**

Week of:	Day:	Lecture topic:
19 Jan	M W	NO CLASS What are we doing here? Disc: first lab prep
26 Jan	M W	Essentials 1: review of fitness & selection Essentials 2: phylogenetics & behavior Disc: adaptation
2 Feb	M W	Make it so: testing adaptive hypotheses Put a model in it: optimality & game theory Disc: the art of generating hypotheses
9 Feb	M W	Sexual selection 1: Bateman revisited Sexual selection 2: resolving the lek paradox Disc: was Bateman wrong? CRITIQUE #1 DUE
16 Feb	M W	NO CLASS Sexual selection 3: resolving the lek paradox Disc: sexual selection & dimorphism
23 Feb	M W	Sexual selection 4: sexual conflict Mating systems 1: ethology to Emlen-Oring Disc: what about females?

Week of:	Day:	Lecture topic:
2 Mar	M W	Mating systems 2: the genetic revolution Mating systems 3: alternative life styles Disc: exam review CRITIQUE #2 DUE
9 Mar	M W	Mating systems 4: the next generation EXAM 1 Disc: writing workshop
16 Mar	M W	Parental care 1: parent-offspring conflict Parental care 2: Trivers-Willard Disc: the “demographic transition”
23 Mar	NO CLASSES – SPRING BREAK WEEK!	
30 Mar	M W	Group living: natal philopatry Group living: optimal group size Disc: should I stay or should I go?
6 Apr	M W	Reproductive skew: conceptual models Reproductive skew: mechanisms Disc: to breed or not to breed
13 Apr	M W	Alloparental care: adaptive hypotheses Sociality: emerging trends Disc: are humans cooperative breeders? CRITIQUE #3 DUE

Week of:	Day:	Lecture topic:
20 Apr	M W	Sociality: the “superorganism” Human behavioral ecology 1 Disc: exam review
27 Apr	M W	Human behavioral ecology 2 EXAM 2

Graded activities:

2 midterm exams (100 pts each)	= 200 pts
3 literature critiques (25 pts each)	= 75 pts
Class & discussion participation	= 75 pts
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Total	= 350 pts

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BEHAVIORAL ECOLOGY LAB
SPRING 2015**

Week of:	Lab exercise:	Assignment due:
19 Jan	No labs	None
26 Jan	Aquatic park: observational methods	Worksheet (15 pts)
2 Feb	Aquatic park: data analysis	Worksheet (25 pts)
	Saturday field trip (7 Feb): Chimney Rock elephant seals	Worksheet (25 pts)
9 Feb	Sexual selection: museum trip	None
16 Feb	Sexual selection report (no lab)	Report (30 pts)
	Saturday field trip (21 Feb): Marina Green inverts	Worksheet (25 pts)
23 Feb	Stomatopod lab 1	Proposal (15 pts)
2 Mar	Stomatopod lab 2	None
9 Mar	Stomatopod lab 3	None
	Saturday field trip (14 Mar): Oakland Zoo & captive behavior	Worksheet (25 pts)
16 Mar	Videography exercise	Lab report (100 pts)
23 Mar	SPRING BREAK	

Week of:	Lab exercise:	Assignment due:
30 Mar	Squirrel lab 1	Proposal (15 pts)
	Weekend field trip (3-5 Apr): Hastings Reservation & field methods	Videofest (25 pts)
6 Apr	Squirrel lab 2	None
13 Apr	Squirrel lab 3	None
20 Apr	Squirrel lab presentations	Presentations (50 pts)
27 Apr	Wrap up	Lab report (100 pts)

Graded assignments:

2 lab reports (100 pts each)	= 200 pts
2 lab proposals (20 pts each)	= 40 pts
Aquatic park analyses (25 pts)	= 25 pts
Sexual selection report (30 pts)	= 30 pts
Squirrel lab oral report (50 pts)	= 50 pts
Field trips (25 pts each)	= 75 pts
Video presentation	= 25 pts
Class participation	= 30 pts

Total	= 475 pts