

ANIMAL BEHAVIOR

IB 144 – ESPM C126 COURSE SYLLABUS

DATE	LECTURER	TOPIC	READINGS
W Aug 24	Lacey	What is behavior?	Chap. 1
F Aug 26	Lacey	Natural selection 1: selection & behavior	Pp. 20-35
M Aug 29	Lacey	Natural selection 2: genes & heritability	Pp. 65-77
W Aug 31	Lacey	Natural selection 3: behavioral variation	Pp. 65-77
F Sep 2	Lacey	Natural selection 4: measuring selection	Freeman & Herron *
M Sep 5		NO CLASS: LABOR DAY HOLIDAY	
W Sep 7	Lacey	Sexual selection 1: male & female strategies	Chap. 11
F Sep 9	Lacey	Sexual selection 2: models of female choice	Chap. 11
M Sep 12	Lacey	Sexual selection 3: why the redundancy?	Chap. 11
W Sep 14	Lacey	Sexual selection 4: challenging the dogma	Tang-Martinez *
F Sep 16	Lacey	Kin selection 1: Hamilton's equation	Pp. 352-370
M Sep 19	Lacey	Kin selection 2: kin recognition	Holmes & Sherman *
W Sep 21	Lacey	Kin selection 3: when $r = 0$	Pp. 350-370
F Sep 23	Lacey	Kin selection 4: challenge of eusociality	Pp. 350-370
M Sep 26	Lacey	Research lecture	Honeycutt *
W Sep 28	Bentley	Development 1: ontogeny	Chap. 3
F Sep 30	Lacey	MIDTERM 1	
M Oct 3	Bentley	Development 2: learning & imprinting	Chap. 3
W Oct 5	Bentley	Development 3: fixed action patterns	Chap. 3

DATE	LECTURER	TOPIC	READINGS
F Oct 7	Bentley	Bird song 1	Chap. 2
M Oct 10	Bentley	Bird song 2	Chap. 2
W Oct 12	Bentley	Neural bases 1: stimulus detection	Chap. 4
F Oct 14	Bentley	Neural bases 2: escape behavior	Chap. 4
M Oct 17	Bentley	Neural bases 3: central pattern generators	Chap. 2
W Oct 19	Bentley	Neural bases 4: stimulus filtering	Chap. 2
F Oct 21	Bentley	Temporal organization 1	Chap. 5
M Oct 24	Bentley	Temporal organization 2	Chap. 5
W Oct 26	Bentley	Research lecture	None
F Oct 28	Bentley	What was that? review	Your notes
M Oct 31	Elias	Navigation	Chap. 4
W Nov 2		MIDTERM 2	
F Nov 4	Elias	Optimality	Chap 3, Davies, Krebs and West
M Nov 7	Elias	Communication 1	Chap. 6
W Nov 9		Communication 2	Chap. 6
F Nov 11	Elias	NO CLASS: VETERANS DAY HOLIDAY	
M Nov 14	Elias	Mating systems 1	Chap. 12
W Nov 16	Elias	Mating systems 2	Chap. 12
F Nov 18	Elias	Parental care 1	Chap. 13
M Nov 21	Elias	Parental care 2	Chap. 13
W Nov 23		NO CLASS: THANKSGIVING HOLIDAY	

DATE	LECTURER	TOPIC	READINGS
F Nov 25		NO CLASS: THANKSGIVING HOLIDAY	
M Nov 28	Elias	Aggression & territoriality	Chap. 10
W Nov 30	Elias	Aggression & territoriality 2	Chap. 10
F Dec 2	Elias	Research lecture	none

* Readings posted on bspace as pdf files.

MIDTERMS:

Midterm 1 (30 September, in class) will cover lectures from 24 Aug – 26 Sept.

Midterm 2 (2 November, in class) will cover lectures from 28 Sept – 28 Oct.

Midterm 3 (16 December, 7-10 pm, final exam period) will cover lectures from 4 Nov - 4 Dec.

FINAL EXAM:

16 December, 2016, 7-10 pm. This is the official University exam period for the course – **no exceptions, no early exams!** One half of the final exam will consist of Midterm 3. The other half of the final will consist of a cumulative exam covering the entire course.

COURSE TEXT:

Nordell, S. E. and T. J. Valone. 2014. **Animal Behavior: Concepts, Methods and Applications.** Oxford University Press, Oxford, UK. **NOTE:** We will put 1-2 copies of the text on reserve in the Biosciences Library.