ANIMAL BEHAVIOR

IB 144 – ESPM C126

FALL 2016

**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

Freeman &

F Sep 2 Lacey Natural selection 4: measuring selection 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

Tang-

W Sep 14 Lacey Sexual selection 4: challenging the dogma Martinez \*

F Sep 16 Lacey Kin selection 1: Hamilton’s equation Pp. 352-370

Holmes &

M Sep 19 Lacey Kin selection 2: kin recognition 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.