

## EEB 129: Animal Behavior (Winter, 2008)

**Instructor:** Dr. Peter Nonacs  
**Office:** Life Science Building 3125  
**Office hrs:** Mon. 8:30-10:30am, or by appointment.  
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**Course website:** <http://www.lsic.ucla.edu/classes/winter08/>

<u>Teaching Assistants</u>	<u>E-mail</u>	<u>Office Hours</u>
Brittany Enzmann (BE)	<a href="mailto:benzmann@ucla.com">benzmann@ucla.com</a>	LSB 3125:
Thea Wang (TW)	<a href="mailto:eebtwang@ucla.edu">eebtwang@ucla.edu</a>	LSB 3125:

Lecture:	TR,	11:00-12:15 pm	Geology 3656		
Discussions:	1A	W,	10:00-11:50am	Botany 133	TA: TW
	1B	W,	1:00-2:50pm	Botany 133	BE
	1C	R,	1:00-2:50pm	Botany 133	TW
	1D	R,	3:00-4:50pm	Botany 133	BE

**Required text:** Animal Behavior Reader  
(Buy Reader at Course Reader Material, 1137 Westwood Blvd.)

**EXAMS:** Will be open-note. You can bring and use your Reader and your notes from the class. In determining your grade, your lowest test grade will be dropped.

**DISCUSSION SECTIONS:** The sections will be devoted entirely to discussing that week's lecture material and assigned readings. All students are expected to come prepared and actively participate in the discussion each week (=50% of the Discussion grade). All students are expected to effectively lead the discussion in their section **two** times during the quarter (=50% of the Discussion grade). The expectations for the discussion leader(s) will be given by the TA's during the first meeting of the sections (Jan. 9 and 10).

### GRADING

Tests (Best three scores): 750 points total  
Discussion: 150 points  
Total: 900 points

### Target Grade Assignments

90-100%	A±
80-89%	B±
70-79%	C±
60-69%	D±
<60%	F

The assignment of grades will be based on percentages (see box). If the class mean is 75% or higher, letter grades will be based on a straight percentage of the 900 point maximum according to the breakdown shown in the box. Within each letter grade, a minus (-) will be assigned to the bottom three percentage points and a plus (+) will be assigned to the top three percentage points (e.g., 80-82.9% is a B-, 87-89.9% is a B+). If the class mean is *lower* than 75%, cutoffs will be lowered somewhat to compensate (e.g., 89% may become an A-).

**MISSING AN EXAM:** Please check the syllabus below carefully for scheduling conflicts with the test dates. **No make-up tests or extra credit assignments will be given.**

**CHEATING:** Any student caught cheating will be given zero points on the test (and that score will not be dropped from the totals), and be reported to the Dean's Office for disciplinary action.

**COURSE SYLLABUS**

<b>LECTURE DATE</b>	<b>#</b>	<b>TOPIC</b>	<b>READINGS (by author of papers)</b>
Tues (8-Jan)	1	Introduction	
Thurs (10-Jan)	2	Genes and genetic architecture	Hurst et al.; Vinogradov
Tues (15-Jan)	3	Intragenomic conflict	Haig; Hatcher; Sinkins & Gould
Thurs (17-Jan)	4	Epistasis and indirect genetic effects	Wolf; Wolf et al.; Linksvayer
Tues (22-Jan)	5	Collective behavior	Hamilton; Sumpter
Thurs (24-Jan)	6	Kin and group selection	West et al.; Wilson; Sinervo et al.
<b>Tues (29-Jan)</b>		<b>Test 1 (Lectures 1-5): 250 points</b>	
Thurs (31-Jan)	7	Kin and group selection, cont.	Pirk et al.; Beekman & Oldroyd; Nonacs (2006a)
Tues (5-Feb)	8	Nepotism and Coercion	Keller; Beekman et al.; Korb & Heinze
Thurs (7-Feb)	9	Cooperation and reproductive skew	Reeve & Keller; Nonacs (2006b)
<b>Tue (12-Feb)</b>		<b>Test 2 (Lectures 6-9): 250 points</b>	
Thurs (14-Feb)	10	Coevolution and mutualism	Herre et al.; Stanton
Tues (19-Feb)	11	Game theory	Dugatkin; Doebeli & Hauert
Thurs (21-Feb)	12	Frequency dependent fitness	Bleay et al.; Olendorf et al.
Tues (26-Feb)	13	Alternative reproductive strategies	Gross; Mank & Avise
Thurs (28-Feb)	14	Social heterosis	Wilson & Holldobler; Foster et al; Nonacs & Kapheim
<b>Tues (4-Mar)</b>		<b>Test 3 (Lectures 10-13) : 250 points</b>	
Thurs (6-Mar)	15	Behavioral personalities and syndromes	Bouchard & Loehlin; Lauronen et al.; Sih et al.
Tues (11-Mar)	16	Neighborhoods and communities	Shuster et al.; Whitham et al.; Cardinale et al.
Thurs (13-Mar)	17	Conclusion	
<b>Tues (18-Mar) 3:00-4:50 PM</b>		<b>Test 4 (Lectures 14-17) : 250 points</b>	