

IB 329 Animal Behavior
(aka. ANSC 366, ANTH 342, PSYCH 329)
Spring 2023

Time and Place: MWF 3:00-3:50 pm in 2079 Natural History Bldg.

Web resources: IB 329 Moodle site on Learn@Illinois (learn.illinois.edu)

Instructor: Prof. Alison Bell

Office hours: by appointment

Email: alisonmb@illinois.edu

TA: Colby Behrens by appointment, colbybb2@illinois.edu

Recommend Text: Alcock – *Animal Behavior*, 9th or 10th Edition
or Rubenstein and Alcock – *Animal Behavior*, 11th edition

Overview and Learning Objectives: The main goal of this course is to examine how and why behavior varies within and among species. Specific learning outcomes include:

1. Distinguish between proximate (mechanistic) and ultimate (evolutionary) approaches to study behavior (e.g. Tinbergen's Four Questions).
2. Formulate hypotheses for each approach to explain a specific behavior.
3. Describe how a knowledge of animal behavior can inform conservation goals and be used to understand human behavior.

Structure: Animal Behavior will be offered in person (face-to-face) in Spring 2023. We will make the learning process as active as possible given the constraints of a large course during a pandemic. Student participation will be encouraged throughout the lecture, and will include graded activities. Links to lecture slides will be made available on the course Moodle site.

Grading: Grades will be based on in-class activities on the course Moodle Site (100 pts) and three in-class exams (100 pts each). Exams consist of multiple-choice, matching and short essay questions. If you need to take a conflict exam, let me know as soon as possible to schedule a make-up exam. If you miss an exam due to an emergency, contact me as soon as possible.

Grading Scale:	<u>Letter grade</u>	<u>% points</u>	<u>Total points (out of 400 possible)</u>
	A	90%	360
	B	80%	320
	C	70%	280
	D	60%	240

Extra Credit: You can receive extra credit by attending a campus seminar on the topic of animal behavior. For specific directions and a list of potential seminars, see the postings on Moodle.

Academic Integrity/Plagiarism:

This course will follow Article 1 Part 4 (1-401 through 1-406) of the *Student Code* (<https://studentcode.illinois.edu/article1/part4/1-401/>). This rule defines infractions of academic

integrity, which include but are not limited to cheating, fabrication, and plagiarism. You are responsible for being knowledgeable about what the infractions are for not following these guidelines. www.admin.uiuc.edu/policy/code/index.html

Accommodations: If you have an approved, scheduled absence for a lecture, lab, or exam, please contact your TA or instructor at the beginning of the semester to make arrangement to make-up the material. If you miss an exam due to personal illness or tragedy, please notify your TA or instructor as soon as possible. If you have any questions regarding these policies, please see your instructors.

If you need special assistance because of a disability or a conflict with class during the semester, please see me at the beginning of the semester to discuss what arrangements can be made. If you have serious questions or concerns about your performance in this class due to extenuating circumstances, please talk to me as early as possible. I will always try to accommodate a student with a demonstrated desire and willingness to learn.

To obtain disability-related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES, you may visit 1207 S. Oak St., Champaign, call 333-4603, e-mail disability@illinois.edu or go to the DRES website. If you are concerned you have a disability-related condition that is impacting your academic progress, there are academic screening appointments available on campus that can help diagnosis a previously undiagnosed disability by visiting the DRES website and selecting “Sign-Up for an Academic Screening” at the bottom of the page.

If you are interested in obtaining information to improve writing, study skills, time management or organization, the following campus resources are available to all students:
<https://writersworkshop.illinois.edu/> <http://disability.illinois.edu/strategies>

Most college offices and academic deans provide academic skills support and assistance for academically related and personal problems. Links to the appropriate college contact can be found by going to this website and selecting your college or school:
illinois.edu/colleges/colleges.html

If you are experiencing symptoms of anxiety or depression or are feeling overwhelmed, stressed, or in crisis, you can seek help through the following campus resources:

Counseling Center
206 Fred H. Turner Student Services Building 7:50 a.m.-5:00 p.m., M-F, Ph: 333-3704
<http://www.counselingcenter.illinois.edu/>

McKinley Mental Health
313 McKinley Health Center
8:00 a.m.-5:00 p.m., M-F, Ph: 333-2705
McKinley Health Education offers individual consultations for students interested in learning relaxation and other stress/time management skills, call 333-2714.

Lecture schedule (tentative)

Lecture #	Date	Day	Topic	Readings for Edition...		
				9	10	11
1	Jan 18	W	Introduction to the course			
2	Jan 20	F	Foundations of Animal Behavior	Ch 1	1,2	1
3	Jan 23	M	Methodology for the study of behavior			
4	Jan 25	W	Evolution and behavior	Ch 2	10	2
5	Jan 27	F	Proximate vs ultimate explanations	Ch 2	10	2
6	Jan 30	M	Genetics of behavior I	Ch 3		3
7	Feb 1	W	Genetics of behavior II	Ch 3		3
8	Feb 3	F	Development and behavior I – Special guest: Lisa Surber	Ch 3	11	3
9	Feb 6	M	Development and behavior II	Ch 5	13	5
10	Feb 8	W	Hormones and behavior	Ch 4	12	4
11	Feb 10	F	Neurobiology I: Sensory Systems	Ch 4	12	4
12	Feb 13	M	Neurobiology II: Neural basis of behavior			
13	Feb 15	W	Communication			
14	Feb 17	F	Recognition systems			
15	Feb 20	M	Review I			
	Feb 22	W	Exam I			
16	Feb 24	F	Antipredator behavior	Ch 6	5	6
17	Feb 27	M	Predatory behavior/foraging	Ch 7	5	6
18	March 1	W	Foraging II	Ch 7	5	6
19	March 3	F	Honey bee dance language	Ch 7	2	
20	March 6	M	Habitat selection, territoriality I	Ch 8	6	7
21	March 8	W	Habitat selection, territoriality II – Special guest TBD	Ch 8	6	7
22	March 10	F	Special Guest: Eva Fischer			
	March 13	M	Spring break			
	March 15	W	Spring break			
	March 17	F	Spring break			
23	March 20	M	Evolution of sex	Ch 11	8	
24	March 22	W	Sexual selection and male competition	Ch 10	7	9
25	March 24	F	Sexual selection and mate choice	Ch 10	7	9
26	March 27	M	Mating systems I	Ch 11	8	10
27	March 29	W	Mating systems II	Ch 11	8	10
28	March 31	F	Review II			
	April 3	M	Exam II			
29	April 5	W	Parental care	Ch 12	9	11
30	April 7	F	Helpers at the nest	Ch 7, 13	3	11
31	April 10	M	Living in groups/cooperation	Ch 7,13	3	12,13
32	April 12	W	Altruism/eusociality	Ch 13	2,3	12,13
33	April 14	F	Division of labor, Special guest TBD			
34	April 17	M	Conservation and behavior I			
35	April 19	W	Conservation and behavior II			
36	April 21	F	Human behavior	Ch 14	14	14
37	April 24	M	Animal personality			

38	April 26	W	Human personality	Ch 14	14	14
39	April 28	F	Review III			
	May 1	M	Exam III			
