

IB 329 Animal Behavior
(aka ANSC 366, ANTH 342, PSYCH 329)
Spring 2024, 3 credits

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, 437 Morrill Hall

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 Student 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 2024. We strive to make the learning process as active as possible. 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. Students are required to attend lecture; attendance will be assessed by participation in in-class activities.

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)

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

	35	April 17	W	Conservation and behavior II			
	36	April 19	F	Conservation and behavior III			
15	37	April 22	M	Animal personality			
	38	April 24	W	Human personality	Ch 14	14	14
	39	April 26	F	Review III			
		April 29	M	Exam III			