

IB 329 Animal Behavior

(aka. ANSC 366, ANTH 342)

Spring 2020, University of Illinois, Urbana-Champaign

Time and Place: MWF 3:00-3:50 pm, 2079 Natural History Building
Web resources: IB 329 Moodle site on Learn@Illinois (learn.illinois.edu)

Instructor: Prof. Andrew Suarez **TA:** Sarai Stuart
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Office hours: by appointment by appointment
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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: 50 min lecture three times a week. We will try to make the learning process as active as possible with a class of over 150 students. Lecture outlines will be posted online, usually the day of lecture. Although full discussions may be difficult, student participation will be encouraged throughout the lecture.

Grading: Grades will be based on in-class activities / quizzes 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</u> (out of 400 possible)
	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.

Honesty policy: This course follows Rule 33 of the *Code of Policies and Regulations Applying to All Students*, which states: “It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions...” Any academic dishonesty will result in zero points for both parties for the first infraction. Second infractions will result in automatic failure of the course and a recommendation to the University for dismissal.

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Accommodations: 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:

Writer’s Workshop, Undergrad Library, 217-333-8796

<http://www.cws.illinois.edu/workshop>

<http://disability.illinois.edu/strategies>

<http://www.counselingcenter.illinois.edu/self-help-brochures/>

Also, 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:

<http://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., Monday through Friday

Phone: 333-3704

McKinley Mental Health

313 McKinley Health Center

8:00 a.m.-5:00 p.m., Monday through Friday

Phone: 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)

Date	Day	Topic	Alcock Edition: 9	10	11
Jan 20	M	MLK Day (no class)			
Jan 22	W	Introduction to the Course			
Jan 24	F	Foundations of Animal Behavior	Ch. 1	1,2	1
Jan 27	M	Methodology for the Study of Behavior			
Jan 29	W	Evolution and Behavior	Ch. 2	10	2
Jan 31	F	Proximate vs Ultimate Explanations	Ch. 2	10	2
Feb 3	M	Genetics of Behavior 1	Ch. 3		3
Feb 5	W	Genetics of Behavior 2	Ch. 3		3
Feb 7	F	Development and Behavior	Ch. 3	11	3
Feb 10	M	Hormones & Behavior	Ch. 5	13	5
Feb 12	W	Neurobiology I: Sensory Systems	Ch. 4	12	4
Feb 14	F	Neurobiology II: Neural Basis of Behavior	Ch. 4	12	4
Feb 17	M	Recognition Systems 1			
Feb 19	W	Recognition Systems 2			
Feb 21	F	Review 1			
Feb 24	M	Exam 1			
Feb 26	W	Anti-predatory Behavior	Ch. 6	5	6
Feb 28	F	Predatory Behavior / Foraging	Ch. 7	5	6
Mar 2	M	Foraging II	Ch. 7	5	6
Mar 4	W	Habitat Selection / Territoriality	Ch. 8	6	7
Mar 6	F	Communication I	Ch. 9	4	8
Mar 9	M	Communication II	Ch. 9	4	8
Mar 11	W	The Honey Bee Dance Language	Ch. 7	2	
Mar 13	F	No Class			
Mar 14-22	MWF	Spring Break			
Mar 23	M	Evolution of Sex	Ch. 11	8	
Mar 25	W	Sexual Selection & Male Competition	Ch. 10	7	9
Mar 27	F	Sexual Selection & Mate Choice	Ch. 10	7	9
Mar 30	M	Mating Systems I	Ch. 11	8	10
Apr 1	W	Mating Systems II	Ch. 11	8	10
Apr 3	F	Review 2			
Apr 6	M	Exam 2			
Apr 8	W	Parental Care	Ch. 12	9	11
Apr 10	F	Helpers at the Nest	Ch. 7, 13	3	11
Apr 13	M	Living in Groups	Ch. 7, 13	3	12,13
Apr 15	W	Cooperation / Altruism	Ch. 13	2	12,13
Apr 17	F	Eusociality	Ch. 13	3	12
Apr 20	M	Division of Labor			
Apr 22	W	Conservation and Behavior I			
Apr 24	F	Conservation and Behavior II			
Apr 27	M	Human Behavior	Ch. 14	14	14
Apr 29	W	Personality			
May 1	F	Human Personality	Ch. 14	14	14
May 4	M	Review 3			
May 6	W	Exam 3			