

Biology 278 – Animal Behavior  
Syllabus for Fall 2019

**Time and Place:** Tuesday and Thursday, 2:00-3:15, Rm. 201 Coker Hall

**Professor:** Dr. Catherine M.F. Lohmann

**Phone:** 919-962-3216

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**Office Hours:** Tuesdays and Thursdays 3:30-4:30 PM and by appointment

**Class Website:** A website for Biol 278 –section 001 is available through <http://sakai.unc.edu> This syllabus itself, old exams, and various other items will be posted throughout the semester for your reading pleasure.

**Course Goals:** The course teaches the science of animal behavior. We will focus on what animals do, how they do it, why they do it, and perhaps most importantly, how WE as scientists can be sure of our information. That means we will spend a great deal of time discussing experimental procedures and results. You will be challenged to understand the experiments and conclusions and to think about them analytically.

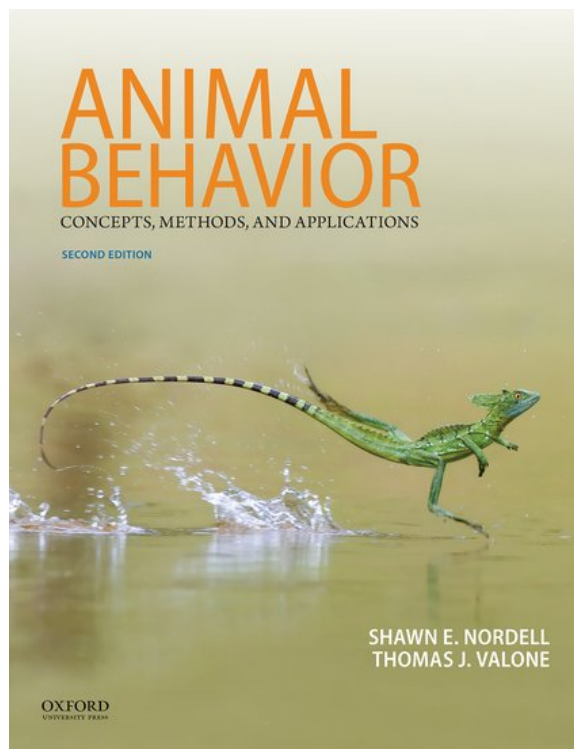
**Grading:**

- ❖ We will have two homework assignments worth 10 points each. Each student will be assigned one lecture and one textbook chapter to write 5 study questions for. The questions will be sent to me via Sakai, I will edit them, and then post them anonymously for the class to use.
- ❖ We will have a brief quiz each Thursday that covers material from the previous week. Each quiz will be worth 6 pts. You will be allowed to drop your lowest two quiz grades. The quizzes are designed as practices for the exams.
- ❖ We will have two midterm exams. Each will be worth 100 pts. On each, approximately 75% of the points will be multiple choice, and about 25% of the points will require written answers. The multiple choice questions usually require a thoughtful analysis and only rarely rely on pure memorization. The written answers need to be clear, well-organized, and complete.

- ❖ The final exam will be cumulative, worth 150 pts, and will be all multiple choice. Approximately 100 pts will cover new material since the second midterm, and 50 pts will cover old material.
- ❖ The final grade will be calculated based on total points. Grades will be assigned using a 10-point scale. The scale will be adjusted each semester for fairness (always in the students' favor), although an 'A' typically requires at least 90%. Scores below 50% will always be failing grades. Scores below 60% will likely be failing.
- ❖ Additional notes: There will be no extra credit. However, weight is given to improvement over the course of the semester, so that any initial difficulties can be overcome with effort.

**Honor Code:** As in any course at UNC, you are expected to adhere to the student honor code and you will be asked to sign your exam as an indication that you will do so.

**Text:** Nordell SE and Valone, TJ. 2017. *Animal Behavior: Concepts, Methods, and Application*. Second edition. Oxford University Press: New York.



**Lecture, Reading, and Exam Schedule Fall 2019**  
 (this is approximate - details are subject to change)

Date	Lecture	Topic	Readings
August 20, Tuesday	Lecture 1	Introduction	Chapter 1 and 2
August 22, Thursday	Lecture 2	Science of Behavior: History and Principles	Chapter 1 and 2; also Chapter 7 pp 157-162
August 27, Tuesday	Lecture 3	Genetics of Behavior <b>CHECK HOMEWORK</b>	Ch 3 and 4
August 29, Thursday	Lecture 4 <b>Quiz 1</b>	Evolution & Behavior	Ch 3 and 4
September 3, Tuesday	Lecture 5	Neural Basis of Behavior <b>HOMEWORK ACKNOWLEDGEMENT</b>	Ch 5 pp 87-89; Ch. 7 pp 151-156
September 5, Thursday	Lecture 6 <b>Quiz 2</b>	Neural Basis of Behavior	Ch 5 pp 87-89; Ch. 7 pp 151-156
September 10, Tuesday	Lecture 7	Hormones & Behavior	Ch. 11 pp. 286-291 Ch 14 pp. 385-388
September 12, Thursday	Lecture 8 <b>Quiz 3</b>	Development of Behavior	Ch. 4, pp 71-73 (Birdsong Learning); Ch.7.163-177
September 17, Tuesday	Lecture 9	Development of Behavior/ Biological Rhythms	Parts of Ch 5 not covered elsewhere
<b>September 19, Thursday</b>	<b>Exam 1</b>		
September 24, Tuesday	Lecture 10	Biological Rhythms	None
September 26, Thursday	Lecture 11 <b>Quiz 4</b>	Foraging Behavior	Ch. 5, pp. 89-103; Ch. 7 and 8
October 1, Tuesday	Lecture 12	Foraging/Antipredator Defenses	Ch. 8, Ch 9
October 3, Thursday	Lecture 13 <b>Quiz 5</b>	Antipredator Defenses	Ch. 9
October 8, Tuesday	Lecture 14	Animal Travels & Sea Turtles	Ch. 10
October 10, Thursday	Lecture 15 <b>Quiz 6</b>	Animal Travels & Sea Turtles	Ch. 10

Date	Lecture	Topic	Readings
October 15, Tuesday	Lecture 16	Dispersal & Migration	Ch. 10
<b>October 17, Thursday</b>		<b>Fall Break</b>	
October 22, Tuesday	Lecture 17	Habitat Selection	Ch. 11
October 24, Thursday	Lecture 18 <b>Quiz 7</b>	Territoriality and Conflict	Ch. 11
October 29, Tuesday	Lecture 19	Communication I	Ch. 6
<b>October 31, Thursday</b>		<b>Exam 2</b>	
November 5, Tuesday	Lecture 20	Communication II	Ch. 6
November 7, Thursday	Lecture 21 <b>Quiz 8</b>	Sexual Selection: Mate Competition	Ch. 12
November 12, Tuesday	Lecture 22	Mate Competition/Choice	Ch. 12
November 14, Thursday	Lecture 23 <b>Quiz 9</b>	Mate Choice	Ch. 12
November 19, Tuesday	Lecture 24	Mating Systems	Ch. 13
November 21, Thursday	Lecture 25 <b>Quiz 10</b>	Parental Care	Ch. 13
November 26, Tuesday	Lecture 26	Costs and Benefits of Social Behavior	Ch. 14
<b>November 28, Thursday</b>		<b>Thanksgiving Break</b>	
December 3, Tuesday	Lecture 27	Cooperation & Altruism	Ch. 15
<b>December 7, Saturday</b>	<b>12 Noon</b>	<b>Final Exam</b>	