

Animal Behavior

ZOO 4513 – 3 credit hours

Tuesdays and Thursdays 4:30 – 5:50 pm

BIOL 209

Instructor: Dr. Kate Mansfield, room 402B, Biological Sciences Building

Email: kate.mansfield@ucf.edu; **please put ZOO 4513 in the subject line**

Office Hours: Tuesdays and Thursdays 3:00 to 4:00 pm.

*Note: there will be **no office hours** February 6th, and March 17th and 19th. I will be at conferences those days (Tampa in February, Colombia in March); however, I will make arrangements for additional office hours and optional review if needed. Office hours may change/cancel based on my schedule but advance notice of changes will be provided when possible.

Prerequisites: PCB 3044; a basic understanding of biology or a year of introductory Biology is required.

Course Website: Webcourses ZOO4513-20 Spring 0002

Email Policies:

- Email me using your official UCF Knights email.
- Include in your email subject: course title (i.e., Animal Behavior) and class number (ZOO4513).
- Include in your email: (1) your full name, (2) course title, and (3) section number (0001).
- I will try to respond within 48 hours, but some response times may be longer. Please plan accordingly by not waiting to the last minute to contact me with questions or concerns.
- Typically, I do not check email in the evening, or past 9pm.
- Due to confidentiality, grades must be discussed in person with the instructor and not via email.
- I will only be able to send e-mail communications to your Knight's E-mail addresses.

Course Description and Goals:

This course is designed to introduce you to the broad field of animal behavior, and to provide you with an understanding of behavior from an evolutionary perspective. Classes will include a combination of lectures and group discussions that will be based

on textbook readings (see required text below), as well as scientific papers and readings from the popular press/scientific media. The goal of this course is to expose you to a variety of approaches used to understand animal behavior and to broaden your perspective on the animal (and human) world around us. Another goal of this class is to help you develop a critical approach to understanding the science behind animal behavior studies.

Required texts and resources:

Additional readings and other materials will be provided by the instructor online (via webcourses) or in class.

Textbooks (required):

Rubenstein and Alcock, J. (2019) *Animal Behavior: An Evolutionary Approach*, 11th Edition. Sinauer Associates, Inc. Sunderland, MA. ISBN: 978-1605355481

Textbook (optional; I do draw from this text in my lectures):

Goodenough, J., B. McGuire, and E. Jakob (2010) *Perspectives on Animal Behavior*, Third Edition. John Wiley & Sons, Inc. Hoboken, NJ. ISBN: 978-0-470-04517-6

Webcourses: Animal Behavior is a web-enhanced class. Announcements, lecture notes, quizzes, grades, additional readings, and relevant web links will be made available at this site. Use your NID and myUCF password to log in. Before emailing your instructor, please check this site for frequently asked questions or announcements!

Other Resources:

The UCF Library has an animal behavior resource page available at <http://guides.ucf.edu/zoo>. Use it!

Sherman, P. and Alcock, J. (2013) *Exploring Animal Behavior: readings from American Scientist*, 6th edition (paperback). Sinauer Associates, Inc. Sunderland, MA. ISBN: 978-1605351957

Journals (online via the library):

Animal Behaviour
Behavioral Ecology
Ethology
Behavior

General Class Information, Expectations, and Assignments:

Tuesday classes will be primarily reserved for lecture material. Wednesday classes will focus on lecture material with time dedicated for group discussions or presentations. You will be expected to actively participate in the class and you are responsible for

learning any material that you may have missed. **Note that class lectures will include information that is not covered by the assigned readings/textbook. All take-home assignments must be typed unless otherwise noted.**

There will be NO extra credit for this class unless included as questions in an exam.

Lectures:

Lectures are designed to benefit you by highlighting important concepts and providing additional explanation of complex topics. Students are expected to demonstrate the utmost respect for the instructor and their fellow students during class. **Proper class etiquette includes:** not arriving late or leaving early; turning all cell phones OFF when entering the classroom; not disrupting class by talking, texting, or using your computer for purposes unrelated to the lecture/note taking. Students not adhering to these common courtesies will be asked to leave the class.

Readings:

You will be responsible for *both* lecture material and assigned readings in the text. Both sources are fair game for exams, so please do not place undue emphasis upon one or the other. Readings will be assigned in class and/or on the class website. To succeed, students must read and understand materials presented in the textbook. Relevant chapters are included on the class schedule and readings need to complete **prior to class**.

Class Participation and Group Discussions:

Your attendance is important both for your understanding of the lecture material, as well as your participation in the class discussions. Everyone will be assigned to a discussion group no later than ~Week Two of class (once the class roster is finalized). You will remain with this group for the semester. I make note of students who participate in class and will periodically take attendance.

Group Assignments:

During one class in the semester (a Thursday, see schedule below), your group will be responsible for sharing articles (of your choosing!) on current topics in the field of animal behavior. This will require some literature searching, preparation, and reading-up on a topic of interest to you that relates to the material covered in class and/or animal behavior in general. This is something that you can prepare for in advance. You must be in attendance the day your group up in order to receive full credit for this assignment. Members of each group will be required to email me (kate.mansfield@ucf.edu) your article(s) on the **Friday (by midnight) before your group's Thursday discussion day (see schedule below)**. This is to allow the class enough time to complete any pertinent readings. The source of your article is up to you.

INSTRUCTIONS: Please email either an attachment with the article or a link to the source along with (**one FULL page, typed, single space, 12 pt font**):

- 1) A brief **summary** regarding the article's topic;
- 2) Why you found the topic or article interesting;
- 3) At least **one question** you have regarding the article; and
- 4) Whether or not you think the article's findings are valid given the source and/or methods and results/conclusions (and why).

All articles/topics must relate to animal behavior and each group should try to coordinate their article selection around a general/broad topic or theme. The UCF library has an excellent online guide established to assist literature searches for animal behavior; it is available at <http://guides.ucf.edu/zoo>. The purpose of this assignment is to:

- 1) Provide you with an opportunity to search, explore, and read scientific literature;
- 2) Hopefully provide you with an appreciation for how broad the field of animal behavior is; and
- 3) Get you thinking critically about scientific literature, science in the media, and scientific sources.

Note that I encourage all of you to bring up topics of interest, articles, news items, etc. (related to the class) at any time during the semester. I may also set up a class FaceBook page (assuming y'all still use The FaceBook).

The write-up will be half of the grade for this assignment. The other half of the grade will be a **2-minute** presentation of your species ("Creature Feature"). Your presentation can be a verbal presentation with powerpoint slides, OR a video you make and share with the class (not to exceed 2 minutes), OR other creative presentation (interpretive dance, craft project with verbal explanation, etc.). You must keep to the time allotted (points will be deducted if your presentation is less than 2 minutes, or exceeds 2 minutes by more than 15 seconds). More details will be shared by the instructor in class and on Webcourses.

Exams:

There will be **three exams**—two midterms and one final exam. I am not a fan of multiple-choice and tend to give exams that are writing-intensive. My goal is for you to learn and apply the material covered in class, not regurgitate it like an Adelie penguin (*Pygoscolis adeliae*) feeding its young (look it up). So, you can expect short-answer questions or short essays. Lectures and assigned readings are fair game. The midterm exams will focus on new material covered. **The final exam may be comprehensive; however, it will emphasize the remainder of the semester not covered by the other two midterms.** The final will be made up of two parts: 1) a "data collection" component that you will complete during the semester (details will be provided in class, this will be due the last full week of class); and 2) standard, written exam questions. Your final exam will be scheduled during the exam period (**TBD**).

Exam Policies:

1. **All exam grades count towards your semester grade. No exam grades will be dropped.**
2. All exams will be based on both lecture material and text reading assignments.
3. You must bring:
 - a) A pencil
 - b) Your UCF ID – **note: failure to show your ID may result in a score of zero for the exam.**
4. *IF* needed, scantrons will be supplied. You do not need to bring your own.
5. Exams 1-2 will begin promptly at the beginning of class and each requires the full 1 hour, 20 minutes. The final exam (Exam 3) will occur at the scheduled time during finals week (see class schedule).
6. **Do not arrive late.** A late student will be allowed access to the exam only at the discretion of the instructor/proctors. Under no circumstances will extra time be allowed.
7. Prior to the exam, all books, notes and bags must be stowed under your seat.
8. Cell phones must be turned OFF and stowed during the exam period.
9. **You will NOT be allowed to leave the exam.** Make sure you have everything you need (pencil, ID, tissues, etc.) and use the restroom before the exam starts.
10. You must print your **PID number** on the scantron (if used) and question sheet/exam form. Be sure you know it!
11. Grades will be posted on WebCourses and I will inform the class when they are posted.
12. **REVIEW OF EXAMS** - Exams will not be returned to students. Instead, you may review your exam during office hours or by appointment. Each exam must be reviewed prior to the next exam date (i.e. if you would like to review exam 1 this must be done before exam 2 is given).

Missed Exam Policy:

1. Make-up exams for exams 1 and 2 will be provided **only** for students who must miss the exam due to official University business at which your presence was required (e.g. a university-sponsored team event). **Hard-copy documentation must be provided 48 hours in advance from the appropriate university body.**
2. For all other cases (e.g. illness, unforeseen emergencies, etc.) you must contact the professor promptly (within 24 hours or less) after missing the exam and provide **hard-copy documentation (a signed document from a doctor, police officer, judge etc. - not by e-mail) within one week.** The absence must have been caused by a valid emergency as defined by UCF and/or the professor, including but not limited to: major illness, serious family emergency, jury duty, military obligation, etc.
3. Make up exams will be in essay format and will be longer than the original exam.
4. Unexcused absence from an exam (e.g., you slept through your alarm) will result in a failing grade for the missed exam and you will not have an option of a make-up exam.

5. All students are required to take the final exam and there will be **NO make-up exams for the Final.**

Quizzes:

There will be 7 multiple choice quizzes to be accessed and completed **on WebCourses**. Quizzes will be available on Webcourses by 5:00 pm the Thursday before they are due. All quizzes are due by **11:59 pm Friday** (see class schedule below). You will have 30 minutes to complete each quiz. Quizzes are open book/lecture notes but require prior preparation to successfully complete the quiz in the time allotted. If you are not satisfied with your grade on a quiz it may be taken a second time prior to the due date and the best score of the two will count. Questions are drawn randomly, so the two quizzes are unlikely to contain exactly the same questions. **There will be no make-up quizzes and no deadline extensions**; you are responsible for reading the text and remembering to complete the on-line quizzes on time. **The first quiz will occur at the end of week 1 or 2.** I will drop the lowest quiz from your grade, so your best 6 quizzes will count towards your final grade. This will be reflected in Webcourses automatically.

Two common problems with quiz submission you should note are:

1. Questions must be **answered in order** and you may not return to previous questions;
2. Final submission of the quiz must occur prior to the **30-minute** deadline or the computer will not accept it.

Grading and Evaluation:

Students will be graded and evaluated based on exam scores (midterms and final), class/discussion participation (including attendance), quizzes, and completion of group assignments. Graded tests in this course will be NOT returned individually and may be viewed only by request and only during scheduled office hours. You can access your scores at any time using the Grade Book function of Webcourses. Your grade will be based on the following assignments:

Midterm exam 1	20%
Midterm exam 2	20%
Class participation and discussions	5%
Group assignment—Creature Feature	10%
Quizzes	10%
Final exam part I ('data collection project')	15%
Final exam part II (exam 3)	20%

You can access your scores at any time using the **Grade Book function of Webcourses**. The overall final semester grade will not be rounded. Either you have the

grade or you don't. In other words, a 79.9999 is still a 'C+'. **There will be no exceptions to this policy and no adjustments will be made to final grades.**

You will be graded based on the following scale (this class is NOT graded on a curve):

A	94-100%	C	73-76%
A-	90-93%	C-	70-72%
B+	87-89%	D+	67-69%
B	83-86%	D	63-66%
B-	80-82%	D-	60-62%
C+	77-79%	F	<60%

Academic Conduct:

Students are expected to follow UCF's standards for personal and academic conduct as defined and outlined in the Golden Rule (see: <http://goldenrule.sdes.ucf.edu>). Academic dishonesty in any form will not be tolerated. If you are uncertain as to what constitutes academic dishonesty, please consult The Golden Rule, the University of Central Florida's Student Handbook (<http://www.goldenrule.sdes.ucf.edu/>) for further details. As in all University courses, The Golden Rule Rules of Conduct will be applied. Violations of these rules will result in a record of the infraction being placed in your file and receiving a zero on the work in question AT A MINIMUM. At the instructor's discretion, you may also receive a failing grade for the course. Confirmation of such incidents can also result in expulsion from the University.

Late assignments will receive a 10% deduction per day that the assignment is late. After two days, late assignments will not be accepted and you will not receive credit for the assignment. **Make-up assignments/exams will be determined on a case-by-case basis and in advance of any deadline (see exam and quiz policies above).** As noted above for exams/quizzes, if you must miss an assignment, exam, discussion, etc. and you have a valid reason for doing so (see above), you **must inform me by email PRIOR to the missed class/activity or ASAP.** If you must miss for medical/health reasons, please provide a doctor's note. Students are expected to notify me in advance (at the beginning of the semester) if they intend to miss class to observe a holy day of their religious faith.

The current UCF policy concerning **incomplete grades** will be followed in this course. Incomplete grades are given only in situations where unexpected emergencies prevent a student from completing the course and the remaining work can be completed the next semester. Your instructor is the final authority on whether you qualify for an incomplete. Incomplete work must be finished by the end of the subsequent semester or the "I" will automatically be recorded as an "F" on your transcript.

As of Fall 2014, all faculty members are required to document students' academic activity at the beginning of each course. In order to document that you began this course, I will be documenting attendance during at least the first couple weeks of class. Failure to attend class will result in a delay in the disbursement of your financial aid and incur the wrath of the bean counters.

Technology and Media:

Email:

My preferred method of communication is via email. Please put "ZOO-4513" in the subject line. If I do not respond within 24 hours, please send a follow-up email. I will try to respond to all emails within 24 hours. Please note that emails received after 7-8 pm at night may not be opened until the following morning.

Phones in Class:

Please turn off and put away all phones during class. Texts, phone calls, web searching, etc. will not be tolerated.

Laptop and iPad (or tablet) Usage:

Laptops and tablets may be used in class for the sole purpose of taking notes. All wireless/internet connections must be turned off and/or in airplane mode.

Disability Access:

The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students who need accommodations must be registered with Student Disability Services, Ferrell Commons Room 185, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

Professionalism Policy:

Per university policy and classroom etiquette; mobile phones, iPods, *etc.* **must be silenced** during all classroom and lab lectures. Those not heeding this rule will be asked to leave the classroom/lab immediately so as to not disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, *etc.*, and have been warned may suffer a reduction in their final class grade.

Shameless Plug for the UCF Marine Turtle Research Group:

Consider applying for our Summer Internship Program! We will be accepting applications early in the spring semester. Graduate students from the lab will make a short presentation about the program with more details (likely in January or early February). Interviews will be conducted in Feb/March and final selections will be made by the end of the semester. We will be choosing up to 12 interns for long days and nights on the beach or on the water, working within the Archie Carr NWR in Melbourne Beach, FL.

Course Schedule (subject to revision):

Additional optional and assigned readings will be provided as the semester progresses. The dates and assignments/subjects/readings in this schedule are tentative, and can be changed at the discretion of the professor.

Additional readings for group discussions will be announced in class on Mondays and selected from the readings provided by the week's discussion group (who should have provided reading options to me by the **previous Friday at midnight**). These readings will be made available online (under the weekly folder found in the Files tab on Webcourses). Please note that this schedule is subject to change.

Class schedule (tentative and subject to change at the discretion of the instructor):

Week	Dates	Topic	Relevant Chapters	Quiz Due 11:59pm
1	Jan 7, 9	Course introduction Introduction to animal behavior The Integrative Study of Behavior	1, 2	Jan 10
2	Jan 14, 16	The Integrative Study of Behavior The Developmental and Genetic Bases of Behavior Group time	2, 3	
3	Jan 21, 23	The Developmental and Genetic Bases of Behavior The Neural Basis of Behavior Group 1 assignment and discussion	3, 4	Jan 26
4	Jan 28, 30	The Neural Basis of Behavior The Physiological Basis of Behavior Group 2 assignment and discussion	4, 5	
5	Feb 4, 6	Dr. Mansfield misses Thursday class Avoiding Predators and Finding Food Guest lecture on Thursday Midterm review	6	Feb 9
6	Feb 11, 13	Tuesday 11th: Exam 1 (Chapters ~1-5) Avoiding predators and finding food Group 3 assignment and discussion	6	
7	Feb 18, 20	Territoriality and Migration Group 4 assignment and discussion	7	Feb 23
8	Feb 25, 27	Territoriality and Migration Final Exam Part 1 Instructions Principles of Communication Group 5 assignment and discussion	7, 8	
9	Mar 3, 5	Principles of Communication Reproductive Behavior Group 6 assignment and discussion	8, 9	Mar 9
10	Mar 10, 12	NO CLASS! Spring Break		
11	Mar 17, 19	Dr. Mansfield in Colombia; guest lecturers TBD Mating Systems Parental Care Midterm review	10, 11	

12	Mar 24, 26	Mar 26th: Exam 2 (Chapters ~6-9, 11-12) Principles of Social Evolution	12	
13	Mar 31, Apr 2	Social Behavior and Sociality (Human Behavior) Group 7 assignment and discussion	13, (14)	Apr 6
14	Apr 7, 9	(Human Behavior) Group 8 assignment and discussion; Group 9 assignment and discussion	(14)	
15	Apr 14, 16	Catch-up lectures if needed FINAL EXAM PART I DUE MONDAY 14th MONDAY: Group 9 assignment (finish if needed); Group 10 assignment and discussion WEDNESDAY: Guest lecturers (Dr. Scott Kraus, New England Aquarium; Dr. Chris Clark, Cornell University)	TBD	Apr 19
Final	Apr 23	Exam 3 (“Final Part II”): Thursday, April 23rd 4:00 – 6:50 pm (time TBD—most likely 4:30 – 5:50 pm)		