

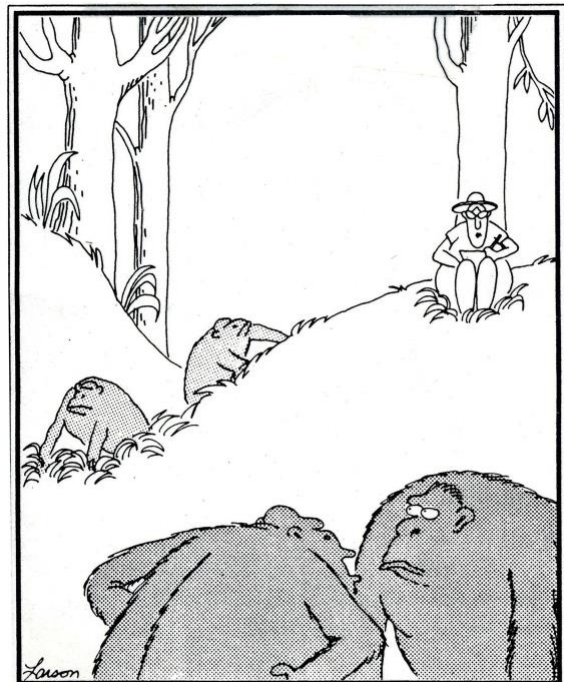
**Syllabus**  
**Anthropology 212**  
**LIFE OF PRIMATES**  
Fall 2021

- Instructor:** Professor Ryne A. Palombit  
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Phone: (848) 932-9275
- Teaching Fellow:** Fred Foster  
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- Canvas Course Website:** This site, 2021FA – THE LIFE OF PRIMATES (T1 & T2), will have lecture outlines, readings, announcements, video clips and movies, etc. **You must also use the Canvas site to do the quizzes and submit assignments.** Please use Canvas (not email) to submit questions about course material, schedule, etc. Post your question in the “Discussions” area in the section of the area of the Canvas site.
- Meeting Time & Place:** Monday, Wednesday, 3:00 – 4:20 pm, Loree 024 & Wright Rieman Auditorium
- Prerequisites:** None
- Required Textbooks:** Falk, D. 2000. *Primate Diversity*. W.W. Norton, New York.  
Goodall, J. 1971. *In the Shadow of Man*. Houghton Mifflin, Boston.

**Core Curriculum Learning Goals**

- ✓ Understand and apply basic principles and concepts in the physical or biological sciences.
- ✓ Explain and be able to assess the relationship among assumptions, method, evidence, arguments, and theory in scientific analysis.

**Course Description & Objectives:** A primary goal is to understand and apply basic principles and concepts in the biological sciences. Students will learn how to explain and assess the relationship among assumptions, method, evidence, arguments, and theory in scientific analysis. We will achieve these aims through a question-oriented survey of the world’s living primates in which students will: (1) acquire a broad knowledge of the biology of primates, i.e., their diverse anatomy, behavior, ecology, and mental worlds; (2) gain appreciation of the fact that so many features of living humans—from our bodies to our social behavior to our thinking—cannot be fully understood without comparative reference to nonhuman primates; (3) discover some of the many unanswered questions currently challenging the people who study primates; and (4) develop some understanding for *how we go about answering* the many questions about *why* the myriad primate patterns we see exist as they do.



“Don’t shush me—and I don’t care if she IS writing in her little notebook; just tell me where you were last night!”

Gary Larson, *The Far Side*

This **3-credit course** is also a pre- or co-requisite for other upper division courses in primatology, e.g., *Primate Behavioral Ecology* (Anthro 348), *Primatology and Human Evolution* (Anthro 350), and *Primate Conservation* (Anthro 402).



## COVID Policies:

In order to protect the health and well-being of all members of the University community, masks must be worn by all persons on campus when in the presence of others (within six feet) and in buildings in non-private enclosed settings (e.g., common workspaces, workstations, meeting rooms, classrooms, etc.). Masks must be worn during class meetings. Any student not wearing a mask will be asked to leave the lecture room.



Masks should conform to CDC guidelines and should completely cover the nose and mouth:  
<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/about-face-coverings.html>

Each day before you arrive on campus or leave your residence hall, you must complete the brief survey on the [My Campus Pass symptom checker](#) self-screening app.

If you are not feeling well or experiencing symptoms of any transmissible disease, it would be better for you to consider staying at home than coming to campus.

For more information, consult the [Guide to Returning to Rutgers](#)

### Office Hours (all are remote via Zoom)

*Professor Palombit:*

Monday, 5:30 pm – 6:30 pm: [click here](#).

Wednesday, 5:30 pm – 6:30 pm, [click here](#).

*Note: Fred's Thursday Office hours will also serve as the regular Question-Answer Session before each Quiz: see below.*

*Teaching Fellow Fred Foster:*

Monday, 12:30 – 1:30 pm, [click here](#).

Thursday, 11 am – 12 pm: [click here](#).

### Synchronous-Immersive Classroom Etiquette: *Respect Your Fellow Students*

This course is taught in the “synchronized immersive” classrooms in which I will lecture simultaneously to two classrooms, one in Loree Room 204 (on Douglass Campus) and one in the Wright-Rieman Auditorium (on Busch Campus).

In this synchronized-immersive format, you have special responsibilities to fellow students to minimize disruptions to their concentration and attention to lectures:

- **no texting or e-messaging or phone use** of any kind **during lectures**
- **no packing up to leave** before class is dismissed
- If you arrive late, sit in one of the two rows in the back, by the door
- If you know you'll need to leave the lecture early, let me or the Teaching Fellow know beforehand and please sit in the back row near the door.



### Assignment of Grade for Course

1. 7 Quizzes (80% of final course grade)
2. Term Paper: *In the Shadow of Man* (20% of final course grade), **Nov. 22, by 11:55 pm**

### Quizzes

There will be 7 **quizzes** with multiple choice questions during the semester, which all together account for 80% of the course grade. The first six quizzes are scheduled about every couple weeks and each occurs over a Friday-Sunday period. Except for one exception, each of the first six quizzes will cover the material for 3 lectures, which includes assigned readings.

Here is the summary of the quizzes (next page):

Quiz #	Quiz Date	% of Course Grade	Material Covered in Quiz
1	Sept. 24-26	10%	1. Evolution Part A: Natural Selection (Adaptation) 2. Evolution Part B: Phylogeny (History) 3. What is a Primate?
2	Oct. 8-10	11%	1. Meet the Primitive Primates: Lemurs, Lorises, & Bushbabies 2. Meet the Tarsiers & New World Monkeys 3. Meet the Monkeys and Apes
3	Oct. 22-24	11%	1. Moving Bodies Through the World: Primate Locomotion 2. Primate Diets & Feeding 3. The Problem of Altruism: Kin Selection Part A 4. The Problem of Altruism: Kin Selection Part B
4	Nov. 5-7	11%	1. The Problem of Altruism Among Non-Kin: Reciprocity 2. The Problem of Sex Differences: Sexual Selection (Intrasexual Selection) 3. The Problem of Sex Differences: Sexual Selection (Mate Choice)
5	Nov. 19-21	11%	1. Primate Societies I: Dispersed Societies Primate Societies 2. Primate Societies II: Multi-Male, Multi-Female Groups, Part A: Dominance Hierarchy and Rank 3. Primate Societies II: Multi-Male, Multi-Female Groups, Part B: Social Relationships
6	Dec. 10-12	11%	1. Primate Societies III: Uni-Male, Multi-Female Groups 2. Primate Societies IV: Fission-Fusion Communities (including movie "Among the Wild Chimpanzees"); Monogamous Systems 3. Infanticide: Strategy & Counterstrategies
Quiz #7 below is organized somewhat differently than the 6 quizzes above. See description below			
7	Dec. 22 4-7pm	15%	1. Primate Politics 2. Social Minds 3. Language: Primate Roots 4. Cultural Primatology 5. Chimpanzees are from Mars, Bonobos are from Venus

*Here's how the quizzes work:*

Quizzes #1 through #6:

- each quiz will have 10-12 multiple choice questions
- when you start the quiz, 10-12 questions will be **randomly drawn** by Canvas from a large pool of possible questions. Thus, no two students will take the same quiz.
- you will have **15 minutes** to complete the quiz. After 15 minutes, the quiz automatically closes.
- each of these quizzes will be available to take on the **Canvas site** during this period: from 12 pm on the Friday date indicated above until 5 pm on the next Sunday date indicated. After 5pm on the Sunday, you will **not be able to take the quiz**)

Quiz #7: The "Final" Quiz:

- you must take this quiz on the date and time designated by the University as the "Final Exam" for this course: **Wednesday, December 22, from 4 pm to 7 pm**
- similar to other quizzes, a random sample of questions will be drawn by Canvas from a large pool of possible questions.
- this quiz will have 15-20 multiple choice questions
- you will have 25 minutes to complete this quiz during the period of 4 – 7 pm
- University policies pertaining to "Final Exams" apply to this quiz: click [here](#).

**Term Paper Analysis of *In the Shadow of Man*\*\***

You will write an essay based upon your reading of Jane Goodall's classic book, *In the Shadow of Man*. Goodall's book is extremely rich in descriptions and anecdotes of chimpanzee behavior. In this essay, you will take episodes of social behavior described in detail by Goodall, and analyze them using the theory for understanding behavioral evolution. This theory is not in Goodall's original book, but will be presented in class lectures and textbook readings. A handout with details about the Goodall paper assignment will be posted on the course Canvas site later in the semester.

**Question & Answer (Q&A) Sessions (before each Quiz)**

Your Teaching Fellow, Fred, will do a Q&A session before each quiz. On those Thursdays that immediately precede a Friday on which a quiz will appear, Fred will use his regular Thursday office hour (11 am - 12 pm) as a general Q&A session for as many students who show up (see link above, on page 2). NOTE: the purpose of this Q&A session is to answer questions about the *material in the lectures and readings*, not to answer lots of questions about the quiz, such as questions that begin with "Do we need to know...?" or "Will there be questions about...?", etc. So, again, the Q&A session is your opportunity to ask questions about things in the lectures or readings (though questions about related things you may have come across outside of class are OK to some extent).

**Policy Regarding Missed Lecture or Quiz**

I do not keep track of lecture attendance in this course, but:

**coming to the lectures is crucial for success in the course.**

If you miss 1 or 2 lectures for reasons indicated below, I will provide you with temporary (48-hour) access to an abridged version of the lecture, from which you can take notes as usual. If you miss more than 2 lectures, however, you must consult your **Dean of Students** and ask him or her to provide a signed letter of explanation to me (see below).



If you miss a quiz, an arguably smart thing to do is avail yourself of the Extra Credit opportunity, which can replace the grade for one of the first six quizzes (see below). For missed quizzes, a limited number of make-up opportunities are provided for unusual circumstances, which include things like illness, death in the family, etc.

If you would like to be considered for a makeup assignment for a missed quiz, you must notify the Teaching Fellow or me *via email* **within 48 hours** of the missed quiz. If you miss more than 2 quizzes, however, you must consult your **Dean of Students** and ask him or her to provide a signed letter of explanation to me. That process can be initiated here: <http://deanofstudents.rutgers.edu/contact-us/>. This letter *must refer explicitly to the date of the missed quiz or lecture*.

It is **your responsibility to note the date and time of all quizzes and to plan accordingly**. If you miss all or part of a quiz because you thought it was on a different day or at a different time, you cannot receive extra time or a make-up assignment. So, **take note now** & mark your calendar, iPod, mobile phone, etc. The dates & times of quizzes are both above and below in the Lecture Schedule.

\*\* Photo: National Geographic Society (H. van Lawick)

†† Naturally, email me or the Teaching Fellow directly any questions you have about anything concerning *you* personally in the course (e.g., a grade query).

### Extra Credit Assignment

You will have the opportunity to do an extra credit assignment once during the semester. This assignment will involve either: (a) reading and briefly summarizing three scientific papers (of your choice) from specified primate journals; or (b) attending some online lectures; or (c) a combination of those two options. A handout with details about the Extra Credit Assignment will be posted on the course Canvas site later in the semester. Successful fulfillment of the extra credit assignment will allow you to replace the grade on one of the first 6 quizzes with the grade you earned on this Extra Credit assignment.

### Academic Integrity

Rutgers has *zero tolerance* for cheating, plagiarism and other infringements of academic integrity. Consult <http://academicintegrity.rutgers.edu/> and <http://academicintegrity.rutgers.edu/resources-for-students/> to review what constitutes a violation of academic integrity and what sanctions are taken against violators. Plagiarism is particularly relevant for the term paper and extra credit.

*Students agree that by taking this course all required written work may be subject to submission for textual similarity review to [Turnitin.com](http://Turnitin.com) (directly or via learning management system, i.e. Canvas, Blackboard, Moodle) for the detection of plagiarism. All submitted papers will be included as source documents in the [Turnitin.com](http://Turnitin.com) reference database solely for the purpose of detecting plagiarism of such papers. Use of the [Turnitin.com](http://Turnitin.com) service is subject to the Usage Policy posted on the [Turnitin.com](http://Turnitin.com) site.*

*Students who do not agree should contact the course instructor immediately.*

### Bill Gates Ate My Homework

Computer glitches (such as computers that die, hard disks that crash, flash drives that freeze, etc.) will not be accepted as excuses for failure to do assignments on time, to study for quizzes, etc. It is your responsibility to ensure that everything you do on a computer is **properly & frequently backed up** so that failure of a computer or drive has *no effect* on your academic performance.

## SCHEDULE OF LECTURES, READINGS, & QUIZZES

### Lecture Outlines

For each lecture below, I will post on Canvas (in the modules area) an outline of the lecture. The outline will appear on Canvas one lecture period *before* the relevant lecture. **Look over the outline beforehand & bring it to lecture.**

### Readings

The reading assignments for each lecture below come primarily from these sources:



- your textbook by Dean Falk (note: in the Table below, page numbers on their own or references to “Chapters” refer to this book)
- brief (sometimes *very* brief) entries, typically of 2-4 pages, from scholarly encyclopedias. Although short, these entries present essential ideas that I elaborate upon in lecture.
- some articles in popular science magazines

The non-textbook readings will be posted on Canvas in the modules area.

**IMPORTANT:** You should *download* all the readings and lecture outlines onto your personal computer as they become available during the semester. Why? Because sometimes toward the end of the semester Canvas gets so much traffic that it slows way down.

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## You are expected to do the assigned readings *before* the relevant lecture.

DATE	TOPIC	Assigned Reading
Sept. 1	Why Primates?! (Course Overview)	None
Sept. 6	Labor Day Holiday	
Sept. 8	Evolution Part I: Natural Selection (Adaptation)	pp. 18-19, 43-44, 116-117 Weiner, Jonathan. 2005. Evolution in action. <i>Natural History</i> , November, 47-51. Jain, Tripta, Meena, Mukesh, Barupal, Tansukh, Sharma, Kuldeep, Chittora, Deepali & Sharma, Kanika. 2019. Adaptation. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Sept. 13	Evolution Part II: Phylogeny (History)	Neelabh. 2020. Phylogeny. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Sublett, Jennifer & Evans, Kristine O. 2019. Homology. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Clay, Zanna. 2018. Last common ancestor. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Sept. 15	What is a primate?	pp. 1-13, 27 (Neural Note 1), 39-40 (tree shrews) Palombit, Ryne A. 2008. Primates. In: <i>International Encyclopedia of the Social Sciences</i> , 2 <sup>nd</sup> edition, (W.A. Darity, ed.) pp. 459-462. Macmillan Reference, Detroit: <b>read first section, pp. 459-460 (i.e., the stuff prior to “Dietary Habits”)</b>
<b>The next three lectures are the MEET THE PRIMATES lectures in which I’ll introduce you to the major kinds of primates. The documentary “Life in the Trees” is an assigned “reading” for these lectures, which will appear online on September 24.</b>		
Sept. 20	Meet the “Primitive” Primates: Lemurs, Lorises, & Bushbabies	Chapter 3, pp. 63-78* & Chapter 4* Handout: A Taxonomy of Living Primates Motwani, Rohini. 2020. Genus. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Tachinardi, Patricia. 2019. Diurnality. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Sept. 22	Meet the Tarsiers & New World Monkeys	Chapter 3, pp. 79-84*, Chapter 5* & Chapter 6* Groves, Colin, P. 2017. Prosimian vs Strepsirrhine vs Haplorrhine. In: <i>The International Encyclopedia of Primatology</i> .
Sept. 24-26	<b>Quiz # 1</b>	<b>Covers lectures: (1) Evolution Part I; (2); Evolution Part II; &amp; (3) What is a Primate?</b>
Sept. 27	Meet the Monkeys & Apes of the Old World	pp. 257-264, 277-289, 299-310, 319-326
Sept. 28	<b>Movie: David Attenborough’s “Life in the Trees” goes online for your viewing.</b> Also posted will be the outline “Guide to David Attenborough’s <i>A Life in the Trees</i> ” to use while watching this movie.	
<b>Now that you have met the major primate groups, the course shifts to a “Question-Oriented” approach. We’ll start off with a couple lectures focused on some questions pertaining to Primate Ecology: how do primates use space and foods to “make a living”?</b>		
Sept. 29	Moving Bodies Through the World: Structure & Function in Primate Locomotion	Review relevant material on anatomy & locomotion from previous chapters Granatosky, Michael C. 2020. Primate locomotion. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Burrows, Anne M & Organ, Jason M. 2017. Prosimian locomotion. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Hunt, Kevin D. 2018. Primate suspensory behavior. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .

\* For each chapter marked with \*: (1) read general introductory material at beginning of the chapter; (2) then, for each of the following sections dealing with a particular primate species, just focus on the first few paragraphs dealing with taxonomy, anatomy, where it’s found, etc.; you can skip the material on social behavior (that will come later in course).

DATE	TOPIC	Assigned Reading
Oct. 4	Primate Diets & Feeding	pp. 58-59, 123-124, 160-161, 325 (Box 13) Palombit, Ryne A. 2008. Primates. In: <i>International Encyclopedia of the Social Sciences</i> , the <b>section “Dietary Habits” on p. 460</b> Lambert, Joanna E. 2018. Primate diet. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Deluycker, Anneke M. 2017. Insectivory. In: <i>The International Encyclopedia of Primatology</i> . Lambert, Joanna. 2017. Frugivory. In: <i>The International Encyclopedia of Primatology</i> .
Oct. 6	Open§§	
Oct. 8-10	<b>Quiz # 2</b>	<i>Covers lectures: (1) Meet the Primitive Primates; (2) Meet the Tarsiers &amp; New World Monkeys; (3) Meet the Monkeys &amp; Apes</i>
<b>The next three lectures will introduce you to THEORIES OF SOCIAL EVOLUTION. It is these three theories that you will use in your term paper on Goodall’s book <u>In the Shadow of Man</u></b>		
Oct. 11	The Problem of Altruism: Kin Selection in Theory & in (primate) Practice Part A	pp. 18-19, 43-44, 54-56. Fitzgerald, Carey. 2021. Problems with group selection. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Dawkins, Richard D. 2001. Kin selection and reciprocal altruism. In: <i>Encyclopedia of Mammals</i> , 2nd ed., (D.W. MacDonald, ed.) p. xxxi. Oxford University Press, London. (NOTE: today we will do kin selection; later we do reciprocity) Szala, Anna & Shackelford, Todd K. 2019. Inclusive fitness. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . McLester, Edward & Piel Alex K. 2021. Alarm callers are females with greatest genetic representation. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Oct. 13	The Problem of Altruism: Kin Selection in Theory & in (primate) Practice Part B	Hämäläinen, Hans, Tanskanen, Antti O. & Danielsbacka, Mirkka. 2021. Hamilton’s rule. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Rubenstein, Dustin R. 2017. Animal society. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Wooddell, Lauren J. 2017. Matriline and patriline. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Oct. 18	The Problem of Altruism Among Non-Kin: Reciprocity in Theory & in (primate) Practice	Wilkinson, Gerald S. 1990. Food sharing in vampire bats. <i>Scientific American</i> , 76:76-82. Carter, Gerald. 2021. Blood sharing by vampire bats. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Jacobson, Amy. 2021. Reciprocal altruism. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . de Waal, Frans B.M. 2005. How animals do business. <i>Scientific American</i> , April, pp. 73-79.
Oct. 20	The Problem of Sex Differences: Mating in Theory & in (primate) Practice Sexual Selection PART A: Intrasexual Selection	pp. 43-44, 48, 50-54 Paciulli, Lisa M. 2017. Sexual dimorphism. In: <i>The International Encyclopedia of Primatology</i> . Zuk, Marlene. 2008. Sexual selection theory. In: <i>International Encyclopedia of the Social Sciences</i> (W.A. Darity, ed.) pp. 479-480. Macmillan Reference, Detroit. McCoy, Mark & Nebl, Patrick. 2021. Female reproductive variance. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Oct. 22-24	<b>Quiz # 3</b>	<i>Covers lectures: (1) Moving Bodies Through World; (2) Primate Diets; (3) Problem of Altruism: Kin Selection (Part A); (4) Problem of Altruism: Kin Selection Part B)</i>

§§ I’ll explain what “Open” means in the first lecture on September 1.

DATE	TOPIC	Assigned Reading
<b>Now the course shifts to focus on the amazing DIVERSITY OF SOCIAL SYSTEMS and SOCIAL BEHAVIOR in primates</b>		
Oct. 25	The Problem of Sex Differences: Mating in Theory & in (primate) Practice Sexual Selection PART B: Mate Choice	Same readings as on Oct. 18  Petersdorf, Megan & Higham, James P. 2017. Mating systems. In: <i>The International Encyclopedia of Primatology</i> .
Oct. 27	Primate Societies I: <i>Dispersed Social Systems</i>	Chapter 4 <sup>***</sup> , pp. 49-50, 285-289 Palombit, Ryne A. 2008. Primates. In: <i>International Encyclopedia of the Social Sciences: the section "Social Systems &amp; Behavior," pp. 460-461.</i> Piel, Alex K. 2021. Females remain with natal group. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Isbell, Lynne A. 2017. Grouping patterns. In: <i>The International Encyclopedia of Primatology</i> . Maggioncalda, Anne N. & Sapolsky, Robert. 2009. Disturbing behaviors of the orangutan. <i>Scientific American Mind</i> , 20:14-19. Scott, Amy M. 2021. Prevalence of forced copulation in orangutans. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Nov. 1	Primate Societies II A: <i>Multi-male, Multi-Female (Female-Bonded) Groups: Dominance</i>	Chapter 8 <sup>†</sup> , pp. 51-53, 152-156, 236-237, 246-255 Kochhann, Diani. 2018. Dominance. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Klass, Keren. 2021. Primate dominance hierarchies. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Majolo, Bonaventura. 2017. Dominance. In: <i>The International Encyclopedia of Primatology</i> . Hurst, Ashlee C. 2021. Female-female alliances. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Nov. 3	Primate Societies II B: <i>Multi-male, Multi-Female (Female-Bonded) Groups: Male &amp; Female Strategies</i>	Palombit, Ryne A. 2017. Friendships. In: <i>The International Encyclopedia of Primatology</i> . McLester, Edward. 2021. Special friendships among baboons. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Nov. 5-6	<b>Quiz # 4</b>	<b>Covers lectures: (1) The Problem of Altruism Among Non-Kin: Reciprocity; (2) The Problem of Sex Differences: Sexual Selection Part A (Intrasexual Selection); (3) The Problem of Sex Differences: Sexual Selection Part B (Mate Choice)</b>
Nov. 8	Primate Societies III: <i>One-male, Multi-female Groups</i>	Chapter 7 <sup>†</sup> , pp. 166-167, 192-196, 206-207, 217-219, 308-311, 316 Veit, Peter. 1982. Gorilla society. <i>Natural History</i> , 91 (3): 48-60. Robbins, Martha. 2015. Gorillas. In: <i>The International Encyclopedia of Human Sexuality</i> .
Nov. 9	<b>Movie: Among the Wild Chimpanzees goes online for viewing.</b>	Goodall, Jane & Pusey, Anne. 2015. Flo family (chimpanzee). In: <i>The International Encyclopedia of Human Sexuality</i> .

\*\*\* Now go back to the Chapter and for each of the sections on an individual primate species, read the material that deals with *social behavior & social organization* (e.g., mating, social relationships, parenting, aggression)



DATE	TOPIC	Assigned Reading
Nov. 10	Primate Societies IV: <i>Fission-Fusion Communities, Monogamous Pairs</i>	pp. 158-160, 168-170, 264-275 Gibbons, Ann. 1998. Research News: 'Monogamous' gibbons really swing. <i>Science</i> , 280:677-678. Bales, Karen L. 2021. Pair-bonding in other mammals. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Sobral, Gisela. 2018. Extra-pair copulation. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Nov. 15	Infanticide: Male Strategy & Female Counterstrategies	pp. 51, 192-196. Hrdy, Sarah B. 1977. Infanticide as a primate reproductive strategy. <i>Scientific American</i> , 65 (1): 40-49. Palombit, Ryne A. 2001. Why primates kill their young. In: <i>Encyclopedia of Mammals</i> , 2nd ed., (D.W. MacDonald, ed.) pp. 392-393. Oxford University Press, London. Peñaherrera Aguirre, Mateo & Figueredo, Aurelio J. 2021. Infanticide in nonhumans. In: <i>Encyclopedia of Evolutionary Psychological Science</i> . Robbins, Martha M. 2005. Infanticide in gorillas. In: <i>World Atlas of Great Apes and Their Conservation</i> (J. Caldecott & L. Miles, eds.), pp. 138. University of California Press, Berkeley, California.

**Now the course shifts to focus on BEHAVIORAL COMPLEXITY and the MENTAL WORLDS of primates**

Nov. 17	OPEN	
Nov. 19-21	<b>Quiz # 5</b>	<b>Covers lectures: (1) Primate Societies I; (2) Primate Societies II Part A; (3) Primate Societies II, Part B; (3)</b>
Nov. 22	Primate Politics?	pp. 27 (Neural Note 1), 57 (Neural Note 2), 289-296, 311-315, 335-338 Dunbar, Robin. 2001. Why primates have big brains. In: <i>Encyclopedia of Mammals</i> , 2nd ed., (D.W. MacDonald, ed.), p. 302. Oxford University Press, London. Byrne, Richard W. 2018. Machiavellian intelligence. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Johnson-Ulrich, Lily. 2021. The social intelligence hypothesis. In: <i>Encyclopedia of Evolutionary Psychological Science</i> .
Nov. 24	<i>No meeting: Thanksgiving</i>	
Nov. 29	Social Minds: Primate Facebook?	pp. 57, 242, 290 (Neural Note 11) 335-337. Takada, Misato. 2020. Operant conditioning. In: <i>Encyclopedia of Behavioral Medicine</i> (M. D. Gellman, ed.), pp. 1558-1561. Springer International Publishing, Cham. Cheney, Dorothy L. & Seyfarth, Robert M. 1999. Social cognition in animals. In: <i>The MIT Encyclopedia of the Cognitive Sciences</i> (R. A. Wilson & F. C. Keil, eds.), pp. 778-780. MIT Press, Cambridge, Massachusetts. Amici, Federica. 2020. Primate cognition. In: <i>Encyclopedia of Animal Cognition and Behavior</i> . Massen, Jorg J.M., & Mielke, Alexander. 2020. Third-party interactions. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
Dec. 1	OPEN	
<b>Dec. 5</b>	<b>Term Paper on Jane Goodall's <i>In the Shadow of Man</i> due on Canvas by 11:55 pm</b>	
Dec. 6	Language: Primate Roots?	pp. 335-337 Smith, W. John. 1965. Message, meaning, and context in ethology. <i>American Naturalist</i> , 99:405-409. Seyfarth, Robert M. & Cheney, Dorothy L. 1992. Meaning and mind in monkeys. <i>Scientific American</i> , 267:122-128.
Dec. 10-12	<b>Quiz # 6</b>	<b>Covers lectures: (1) Primate Societies III; (2) Primate Societies IV (including movie "Among the Wild Chimpanzees"); (3) Infanticide Strategy &amp; Counterstrategies</b>

DATE	TOPIC	Assigned Reading
Dec. 8	Cultural Primatology	pp. 243-246, 319-321, 326-328, 335-337. McGrew, William C. 2017. Grooming hand clasp. In: <i>The International Encyclopedia of Primatology</i> . Musgrave, Stephanie & Sanz, Crickette. 2017. Tool use (apes). In: <i>The International Encyclopedia of Primatology</i> . Tomasello, Michael. 1997. Human see, human do. <i>Natural History</i> , 106 (8): 45-47. Davis, Sarah & Whiten, Andrew. 2018. Cumulative culture. In: <i>Encyclopedia of Animal Cognition and Behavior</i> .
<b>We conclude the course with a special session devoted exclusively to our very closest relatives in the primate world: the CHIMPANZEE and the BONOBO</b>		
Dec. 13	<i>Our Closest Relatives: Chimpanzees are from Mars, Bonobos are from Venus?</i>	pp. 332-333 de Waal, Frans B.M. 1995. Bonobo sex and society. <i>Scientific American</i> , 272:82-88. Hohmann, Gottfried. 2015. Bonobos. In: <i>The International Encyclopedia of Human Sexuality</i> . Emery Thompson, Melissa, & Machanda, Zarin P. 2015. Chimpanzees. In: <i>The International Encyclopedia of Human Sexuality</i> . Stumpf, Rebecca M. 2017. Chimpanzee and bonobo. In: <i>The International Encyclopedia of Primatology</i> . Radio interview of Frans de Waal, <i>Leonard Lopate Show</i> , National Public Radio.
<b>Dec. 13</b>	<b>Last day to submit optional Extra Credit Assignment on Canvas by 11:55 pm</b>	
Dec. 22, 4:00-7:00pm	<b>"Final" Quiz # 7</b>	<b>Covers lectures: (1) Primate Politics; (2) Social Minds (3) Language: Primate Roots; (4) Cultural Primatology; (5) Chimpanzees are from Mars, Bonobos are from Venus</b>

Here is the bibliographic information for the scholarly encyclopedias above:

*Encyclopedia of Animal Cognition and Behavior*, edited by J. Vonk & T.K. Shackelford, Springer International Publishing, Cham (<https://link.springer.com/referencework/10.1007/978-3-319-47829-6>).

*Encyclopedia of Evolutionary Psychological Science*, edited by (T.K. Shackelford & V.A. Weekes-Shackelford, Springer International Publishing, Cham (<https://link.springer.com/referencework/10.1007/978-3-319-19650-3>).

*The International Encyclopedia of Human Sexuality* (1st ed.), edited by P. Whelehan & A. Bolin, eds.), John Wiley & Sons, New York (<https://onlinelibrary.wiley.com/doi/book/10.1002/9781118896877>).

*The International Encyclopedia of Primatology*, edited by A. Fuentes, John Wiley & Sons, Inc., New York (<https://onlinelibrary.wiley.com/doi/book/10.1002/9781119179313>).

