ANTH 171: MONKEYS AND APES, Fall Quarter 2018, 4 credit hours (satisfies an SC requirement)

Course Time & Location (Lecture): Monday and Wednesday 12:00-1:20 pm, 180 Prince Lucien Campbell Hall (PLC)

Instructor: Dr. Nelson Ting

Office Hours: Mondays 9:30 am-11:30 pm & by appointment (in 302B Condon Hall)

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Graduate Employees (GE):

Diana Christie
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COURSE DESCRIPTION

This course serves as an introduction to the primatology curriculum in the Department of Anthropology and fulfills a General Education requirement in Science. It will provide a broad survey of the evolutionary biology of our closest relatives, the non-human primates. Because these animals are closely related to humans, they share with us an array of important adaptive features such as high intelligence, complex communication systems, diverse feeding adaptations, and a reliance on social groups. Understanding their ecology, behavior, and evolution thus helps anthropologists interpret these shared features and provides insight into what makes us different as humans. We will learn about the evolutionary forces that have shaped primate diversity, the principles we use behind classifying these animals, the evolutionary history of the group, the various unique and interesting adaptations found across different primate species, and the primary extinction threats that these animals face in the wild.

LEARNING OBJECTIVES

Students will learn the basic evolutionary concepts that shape biological diversity as well as the foundations needed to enroll in our advanced primatology courses. By the end of the term, students will know the divisions within the primate order, the characters that are used to identify these divisions, the different behavioral adaptations found across primate species, and the factors that threaten primates with extinction.

COURSE FORMAT

The course is divided into two halves. The first half will be devoted to the basic theory and concepts we use to explain primate biology, while the second half will focus on the various adaptations found among the different species. This will include a combination of lectures and required laboratory sections. The required laboratory sections are a critical part of the course and are designed to develop practical skills of observing, measuring, and interpreting data collected by biological anthropologists.

CANVAS

A Canvas site will be maintained for this class, which will be your main source for course information, documents, and announcements. **Make sure that you regularly check your Canvas-linked e-mail account.**

ACCOMMODATIONS

Appropriate accommodations will be provided for students with documented disabilities. Please make arrangements to meet with Dr. Ting or a course GE to discuss these accommodations.

REQUIRED READINGS

1) Redmond. 2011. The Primate Family Tree, Firefly. (Available at the Duckstore)
2) "Genetics and Evolution" (Available on Canvas)
3) Brennan, P. (2010) Sexual Selection. *Nature Education Knowledge* 3(10):79 (Available online)
http://www.nature.com/scitable/knowledge/library/sexual-selection-13255240

4) Swedell, L. (2012) Primate Sociality and Social Systems. *Nature Education Knowledge* 3(10):84 (Available online) http://www.nature.com/scitable/knowledge/library/primate-sociality-and-social-systems-58068905
5) Hopper, L. M. et Brosnan, S. F. (2012) Primate Cognition. *Nature Education Knowledge* 5(8):3 (Available online) http://www.nature.com/scitable/knowledge/library/primate-cognition-59751723
6) "Primate Lives" (Available on Canvas)
7) McGlynn, T. (2010) How Does Social Behavior Evolve? *Nature Education Knowledge* 3(10):69 (Available online) http://www.nature.com/scitable/knowledge/library/how-does-social-behavior-evolve-13260245
8) Whiten, A. et al. (2003). Cultural panthropology. *Evolutionary Anthropology. 12*(2), 92-105. (Available on Canvas)
9) "Primate Adaptations" (Available on Canvas)

EXPECTATIONS AND GRADING

Regular attendance at lectures and laboratory sections, as well as participation in laboratory activities, is required. Course readings are required and are essential to passing exams, completing lab assignments, and participating in lab section activities. Your grade in the course will reflect performance on: a quiz; midterm exam; final exam; discussion section attendance; a lab practical; and a short write-up of 5 laboratory exercises.

Quiz **(Week 4)**	10%
Midterm Exam **(Week 6, October 31st)**	25%
Lab Practical **(Week 8)**	15%
Final Exam **(December 4th, 10:15 am)**	25%
Lab Section	25%

The midterm and final exams will cover lectures, readings, videos, and lab section materials. Exams will include multiple choice, matching, and short answer sections. **The final exam will emphasize material from the second half of the course, but will make extensive use of concepts and terminology from the first half**. Exams and assignments must be taken/turned in at the scheduled time—**under no circumstances will make-up exams or assignment extensions be given without a documented excuse** (e.g., signed note from your doctor). **If you will not be able to take an exam or turn in an assignment, *you must notify me in advance* (preferably by e-mail).**

Material on the exams may be different than that presented in the textbook, and may only be covered during class lecture and lab sections. Therefore, you are advised to arrange to obtain course notes if you miss a class. If you have questions after you have gone over the notes, please contact Dr. Ting or a course GE.

Grades will be assigned as follows: A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F < 60% (with minus and plus grades assigned at appropriate cutoffs).

The grading system used in this course is as follows:

A – Outstanding performance relative to that required to meet course requirements; demonstrates a mastery of course content at the highest level.

B – Performance that is significantly above that required to meet course requirements; demonstrates a mastery of course content at a high level.

C – Performance that meets the course requirements in every respect; demonstrates an adequate understanding of course content.

D – Performance that is at the minimal level necessary to pass the course but does not fully meet the course requirements; demonstrates a marginal understanding of course content.

F – Performance in the course, for whatever reason, is unacceptable and does not meet the course requirements; demonstrates an inadequate understanding of the course content.

TENTATIVE CLASS SCHEDULE

Week	Dates	Topics	Readings
1	9/24 9/26	Course Overview & Introduction Evolutionary Theory ***Lab 1: Scientific Method and Evolution***	"Genetics and Evolution"
2	10/1 10/3	Primate Systematics and Features Primate Reproductive Strategies and Social Systems ***Lab 2: Primate Systematics***	Redmond 2011 pp 10-31 Brennan 2010 Swedell 2012
3	10/8 10/10	Primate Social Behavior Primate Tool Use and Culture ***Lab 3: Primate Behavior***	McGlynn 2010 Whitten et al. 2003
4	10/15 10/17	Primate Cognition and Intelligence Primate Habitats and Ecology ***Lab 4: Quiz on Weeks 1-3***	Hopper et Bronson 2012 "Primate Lives"
5	10/22 10/24	Primate Adaptation Primate Conservation I ***Lab 5: Review for Midterm Exam***	"Primate Adaptations" Redmond 2011 pp 32-44
6	10/29 10/31	Primate Conservation II ***Midterm (covers everything through Week 6)*** ***Lab 6: Strepsirrhines***	
7	11/5 11/7	Lemurs Lorises, Galagos, and Tarsiers ***Lab 7: Haplorhines***	Redmond 2011 Prosimians
8	11/12 11/14	Monkeys I Monkeys II ***Lab 8: Lab Practical***	Redmond 2011 NW and OW Monkeys
9	11/19 11/21	Apes I Apes II ***Lab 9: Thanksgiving break – No Class***	Redmond 2011 Apes
10	11/26 11/28	Apes III Conclusion ***Lab 10: Review for Final Exam***	Redmond 2011 Apes
11	**12/4**	***Final Exam; 10:15 am (covers Weeks 7-10)***	