

Anthropology 505.10
Conference Course in Primatology: Primate Evolution
Winter 2013

Tuesdays and Thursdays 9:30 – 10:45 am

Room #: ES 614

Instructor: Dr. Susanne Cote

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Office Hours: Thursdays 2 – 4 pm, or by appointment

TA: TBA

Office:

Email:

Office Hours:

Course Description:

A review of the primates, from the origin of the clade to the present day. The course will cover the environmental and chronological context for primate evolution, extinct and extant species diversity, and current debates and problems in the field of primate evolution. Laboratories will focus on demonstrating the diversity of primate dietary, locomotor, and social adaptations, and how these are inferred in the fossil record.

Prerequisites: ANTH 201 and ARKY 203, or permission of instructor

Required Texts:

- Fleagle, J. (1999). *Primate Adaptation and Evolution*. 2nd Edition.
- Additional readings from the scientific literature – links provided on Blackboard

Course Objectives:

Upon completion of this course, students should have a better understanding of the following:

- The systematics of living primates, including the basic anatomical differences that distinguish species from both a functional and phylogenetic perspective
- The broad scope of primate evolution – including the temporal and geographic setting, important species, and evolutionary adaptations
- The relationship of fossil primates to living primates
- How to reconstruct function, behavior and phylogenetic relationships among species from the fossil record
- Major research questions relevant to significant periods in primate evolution

Course Requirements:

Six In-Class Lab Assignments – 15%

Midterm Exam – 25%

Final Exam – 35%

Research Paper – 25%

- 5% Proposal

- 20% Final Paper

Lab Assignments – 15%

Six (6) **in class** laboratory assignments throughout the semester (see Class Schedule). Each assignment will be worth 2.5% of your final grade. These assignments are **mandatory**, and must be **handed in at the end of class**. All work needed to successfully complete the lab assignment will be done **in class**.

Mid-term Examination – 25% - February 14th in class

This exam will take place in class on Thursday, February 14th and will cover lectures, laboratories, and readings assigned since the beginning of term through February 7th (inclusive). The format will include a mixture of different types of short answer questions.

Research Paper – 25% : 5% for Proposal (March 7th) , 20% for final paper (April 11th)

You will write a research paper on a topic of your choice. Papers should be 10-12 pages in length. You are welcome to work individually or in small groups (up to three students). A **proposal** of your topic, with an accompanying list of key references will be due in class on **March 7th** and is worth 5%. Proposals will be handed back March 14th. A detailed handout with guidelines for topics and paper preparation will be provided by January 31st.

Final Examination – 35% - Registrar scheduled (April 19-30th 2012)

The final examination will cover ALL lectures, laboratories, and assigned readings for the term (cumulative). It will be largely short answer format, with some long answer questions.

Grade Breakdown:

A+	100-94.9%	B	79.8-74.9%	C-	62.8-58.9%
A	94.8-89.9%	B-	74.8-70.9%	D+	58.8-54.9%
A-	89.8-84.9%	C+	70.8-66.9%	D	54.8-49.9%
B+	84.8-79.9%	C	66.8-62.9%	F	49.8% and less

Course Policies:

Classroom behavior and attendance:

- It is in your own best interest to attend all classes. You are responsible for taking your own notes, or for obtaining notes from a classmate if you have to miss a class for unavoidable reasons.
- You are welcome to use a laptop to take notes, but please sit in the back or along the sides so as to not disturb other students.
- Please turn OFF your cell phone.
- Examinations will cover lectures, laboratories, and readings.

Late Assignments:

- Lab exercises are due at the end of class on the day of that lab. NO EXCEPTIONS.

- Other assignments are due IN CLASS (at the beginning) on the day indicated in this course outline. Late assignments are penalized 5% per day (calendar day, not business day).

Missed labs and exams:

- Missed exams automatically receive a score of zero. In the event of an emergency or illness, the Anthropology main office (403-220-6516) or the instructor MUST be notified BEFORE the exam, and documentation (e.g. doctor's note) must be provided. Make up exams may be in any format (including oral examination). Please note that performance on make-up exams is normally poorer.
- Labs are mandatory and may only be missed in the case of serious illness or personal emergency, and you must contact the instructor as soon as possible (preferably before class). The only opportunity to make-up missed laboratory exercises will be on April 11th, 2013.

Communication Guidelines:

- The best place to ask questions is IN CLASS or during office hours. This is a small class, so take advantage of that and speak with your instructor and TA in person!
- I will answer questions over email, however due to the volume of emails I receive I cannot commit to answering email questions immediately. It may take up to 3 business days (72 hours), so do not send questions last minute.
- I reserve the right to share questions and answers transmitted over email on Blackboard or in class if the answers are pertinent to everyone in the class. This saves time, and ensures that all students have access to the same information as they prepare for assignments and exams.
- Before emailing a question, please make sure that it hasn't already been addressed on Blackboard. If you have follow-up questions, post them on the same thread in Blackboard and I will respond to them there.

ACADEMIC ACCOMMODATIONS

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 220-8237. You are required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation.

PLAGIARISM AND CHEATING

Plagiarism: "to steal and pass off the ideas or words of another as one's own" (Webster's). Plagiarism will not be tolerated and will automatically result in a failing grade for the submission. Any student caught plagiarizing July also be subject to

additional University sanctions. Students are expected to be familiar with the Anthropology Departments policy on intellectual honesty available at:
<https://www.anth.ucalgary.ca/home/links/intellectual-honesty-guidelines>

EMERGENCY EVACUATION:

In the event that the classroom should need to be evacuated due to an emergency situation please note that the primary assembly point shall be at the ICT Food Court and the Social Sciences Food Court shall be used as a secondary assembly point.

Class Schedule:

Lecture topics and readings are subject to change

Date	Topics	Readings
January 8	Course Introduction; The Fossil Record and Timing of Primate Evolution	Chapter 10
January 10	What is a primate? Lab #1: Primate Taxonomy, Phylogeny, and Comparative Anatomy	
January 15	Primate Origins – Historical Perspectives	Chapter 11
January 17	Paleocene Primates	
January 22	Adapoids	Ch 12: 354 - 371
January 24	Adapoid phylogenetic relationships Lab #2: Early Fossil Primates I	
January 29	Omomyoids I	Ch 12: 372 - 388
January 31	Omomyoids II	
February 5	Primate Origins Revisited - Adaptations	Sargis 2002
February 7	Reconstructing Prosimian Relationships Lab #3: Early Fossil Primates II	Yoder 1997
February 12	Subfossil Lemurs	Chapter 4
February 14	Mid Term Examination	
February 19 and 21	NO CLASS – READING WEEK	

February 26	Fossil Platyrrhines	Chapter 14
February 28	Getting to the New World Lab #4: Platyrrhines	Houle 1999
March 5	Early Anthropoids - Eocene	Chapter 13
March 7	Early Anthropoids - Oligocene	
March 12	Anthropoid Phylogenetic Relationships	
March 14	Lab #5: Variation – macaque skeleton lab	
March 19	Miocene catarrhines I	Chapter 15
March 21	Miocene catarrhines II – Africa	
March 26	Miocene catarrhines III – Europe and Asia	Begun 2003
March 28	Lab #6: Fossil Catarrhines	
April 2	Cercopithecoid evolution	Chapter 16
April 4	Hominoid and cercopithecoid adaptations	Chapter 9
April 9	Hominoids to hominins – the Late Miocene	
April 11	Lab Review: Self-directed review of lab materials; Make-Up Labs Research Paper Due	
April 16	Synthesis and Final Thoughts	Chapter 18
April 19-30	Final Exam (to be scheduled by the Registrar)	