ANTHROPOLOGY 309 HUMAN EVOLUTION FALL 2016

Tuesdays and Thursdays 12:30 - 145pm

Lectures: AD 140 Labs: ES 614

Instructor: Dr. Susanne Cote

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Office Hours: TBA

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COURSE DESCRIPTION:

How did our species evolve and who are our fossil ancestors? We will work chronologically and thematically through the last six million years surveying the major phases of human evolution, with an emphasis on understanding how specific human adaptations evolved and why. In laboratories, students will learn how to identify fossils and how to reconstruct behavior from anatomical and paleontological evidence by studying fossil casts.

Pre-requisites: ANTH 201, or permission of instructor

REQUIRED READINGS:

- Readings from the scientific literature as indicated in the Schedule links provided on D2L.
- Several of the readings come from The Nature Education Knowledge Project, Biological Anthropology Section - http://www.nature.com/scitable/knowledge
 Recommended Readings:
- Keep your textbook from ANTH 201. It will be a helpful reference I

COURSE OBJECTIVES:

Upon completion of this course, students will know:

- The basic outline of human evolution over the past 6 million years, including major evolutionary developments and important fossilsites and specimens
- How questions are asked and addressed in the fossil record and how we 'know' what happened in the past
- How paleoanthropologists identify and study new fossil finds.
- How fossil morphology can be used to reconstruct function and behaviour

COURSE REQUIREMENTS AND GRADING:

Lab Assignments - 25% weekly

Midterm Exam-30% October 27th

Lab Exam-10% first week of December
Final Exam-35% Registrar's Scheduled TBA

Lab Assignments -25%

Please note that laboratory assignments are mandatory. Each of the eight assignments is equally weighted and will be worth "'3% of your final grade {25%/8 labs}). The purpose of the labs is to give students the opportunity to examine fossils and fossil casts first hand and learn how paleontologists study fossil remains. All work needed to successfully complete the lab assignment will be done in class. YOU MUST PRINTTHE WEEKLY LAB ASSIGNMENT FROM D2L AND BRINGIT WITH YOU TO YOUR ASSIGNED LAB SECTION!

Mid-term Examination - 30% - October 27fh In class

This exam will cover lectures, laboratories, and readings assigned since the beginning of term through Week 6 of class (inclusive). The format will include a mixture of different types of short answer questions and medium answer questions.

Laboratory Examination -10% - First week of December In your lab section

The lab exam will take place during your last scheduled lab section (the last week of classes – week of December lst). The lab exam will consist of a set of 'stations', each with a short question to be answered. Students will work individually for the lab exam, rotating around to all of the stations on the exam. Each station will be timed. Students who have attended all labs and made sure that they understand what they are seeing in lab should do well.

Final Examination -35% - Registrar scheduled (December 12-22nd 2016)
The final examination will cover ALL lectures, laboratories, and assigned readings for the term. The format will be the same as the midterm examination and will include a mixture of

different types of short answer questions and medium answer questions.

Please note that no extra credit or 'make up' work b available in this class

Department of Anthropology and Archaeology Grade Scheme:

A+	100-94.9%	В	79.8-74.9%	C-	62.8-58.9%
Α	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:

- The most important thing is to be respectful and supportive of other students. Please turn off your cell phone and any other electronic devices. You may use a laptop to take notes, but please sit in the back or along the sides so as to not disturb other students. Please only use your laptops to take notes, and remember that instructors can often tell when you are watching videos, looking at Facebook etc.
- 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.
- Lecture slides will be posted AFTER class, not before. You should come to class prepared
 to take notes. Please note that reading the lectures slides alone will NOT be sufficient to
 get a good grade in this class. All material from lectures is testable, and lecture slides will
 not have everything you need to know.

Labs:

- Most importantly, you must DOWNLOAD AND PRINTTHE WEEK'S LAB ASSIGNMENT FROM D2L and bring it with you to class. Otherwise you won't be able to complete the assignment IYou should also bring a copy of your class notes with you to lab.
- Students are encouraged to work In groups for the lab exercises and to seek help and advice from the TA as often as possible. You should NOT be using electronic devices at any time during laboratory sessions, and do not try to look answers up onlinel
- All work necessary to complete the lab exercises will be done INCLASS. There will be no 'homework' from labs and you will submit your lab exercises at the end of class on the day of that lab.
- Labs are MANDATORY and may only be missed in the case of serious illness or personal emergency. You must contact your TA as soon as possible (preferably before class) if you need to miss lab.
- The only opportunity to make-up missed laboratory exercises will be at the end of term during Lab 9.

Exam and Grading Policies:

- 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. signed Physician's Statement) must be provided. Make up exams may be in any format (including oral examination); performance on make-up exams is often poorer.
- Exams grades will be posted on D2L as quickly as possible. Exams will not be returned to students. If you wish to see your exam, please come to office hours.
- If you have questions about the grading of your exam or assignment, please see Dr. Cote (exams) or the TA (labs) *In person* as soon as possible. After consultation with the

teaching staff, you may dispute a grade that you have received by submitting a written statement within two weeks of receiving the grade.

Communication Guidelines:

- The best place to ask questions is IN CLASS or during office hours. Please take the
 opportunity to talk with the instructor and your TA whenever possible.
- Questions during lectures are welcome, so please just raise your hand. If something
 doesn't make sense to you, it probably didn't make sense to other students either I
- Ialways prefer to talk IN PERSON with students whenever possible. Iwill answer
 questions over email, however due to the volume of emails Ireceive Icannot commit to
 answering email questions immediately. It may take up to 2 business days (48 hours), so
 do not send questions last minute.
- Ireserve the right to share questions and answers transmitted over email on D2L 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 in the course outline, assignment handouts, or on D2L!

WRITING ACROSS THE CURRICULUM:

Writing skills are not exclusive to English courses and, infact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing intheir University courses and, where appropriate, instructors can and may use writing and the gradingthereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.

Academic Accommodations:

The academic accommodations policy can be found at http://www.calgary.ca/access/accommodations/policy.

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodations and have not registered with Student Accessibility Services, please contact them at 403-220-6019. Students that have not registered with the SAS are not eligible for formal academic accommodations. More information about the academic accommodations can be found at http://www.ucalgary.ca/access.

ACADEMIC MISCONDUCT:

Academic dishonesty is an unacceptable activity at the University of Calgary and students are strongly advised to read the Student Misconduct section of the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are:

- 1) Presenting another student's work as your own
- 2) Presenting an author's work or Ideas as you own without proper referencing
- 3 Using work completed for another course

This activity will not be tolerated and students conductingthemselves in this manner will be dealt with according to the procedures outlined in the University Calendar. For detailed information on what constitutes academic misconduct, please refer to the following link: http://www._ucalgary.ca/pubs/calendar/current/k-2-1.html

EMERGENCY EVACUATION ASSEMBLY POINTS:

In the event of an emergency that requires evacuation, please refer to the following link to become familiar with the assembly points for the class: http://www.ucalgary.ca/emergencyplan/assemblypoints

USRI:

At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference; please participate! Website: http://www.ucalgary.ca/usrl/

FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT:

The University of Calgary is committed to protecting the privacy of individuals who work and study at the University or who otherwise interact with the University in accordance with the standards set out in the Freedom of Information and Protection of Privacy Act.

Please refer to the following link for detailed information: http://www.ucalgary.ca/secretariat/system/files/foip%20overview.pdf

The Department of Anthropology and Archaeology's FOIP (Freedom of Information and Privacy) policy requires all reports/examinations to be returned to students during class time or the instructor's office hours. Any term work not picked up will be placed in the Anthropology and Archaeology Office (ES620) for distribution. Any student not wishing to have their work placed in the office must make alternate arrangements with the course instructor early in the term.

SAFEWALK INFORMATION:

Campus Security, in partnership with the Students' Union, provides the Safewalk service,24 hours a day to any location on Campus including the LRT, parking lots, bus zones and

University residences. Contact Campus Security at (403) 220-5333 or use a help phone, and a Safewalker or a Campus Security Officer will accompany you to your campus destination.

FACULTY OF ARTS PROGRAM ADVISING AND STUDENT INFORMATION RESOURCES: Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us at artsads@ucalgary.ca. You can also visit the Faculty of Arts website at http://arts.ucalgary.ca/undergraduate which has detailed information on common academic concerns.

- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at (403) 220-5881 or visit them in their new space on the 3rd Floor of the Taylor Family Digital Library.
- •For registration (add/drop/swap), payingfees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmle Library Block.
- Contact for Students Union Representatives for the Faculty of Arts:

artsl@su.ucalgary.ca arts2@su. ucalgary.ca arts4@su. ucalgary.ca

CLASS SCHEDULE:

**Lecture topics and readings will be adjusted throughout the semester!

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Date	Topic	Readings	
	Week ■		
September 13	Course Introduction; Human Origins		
September 15	History of Discovery		
No lab	No Labsin Week One		
	Week 2		
September 20	How do we know what we know about human evolution?	Peppe and Deina, 2013 (N.Ed)	
September 22	Last Common Ancestor - History and Expectations	Kivell and Schmidt 2009**	
Lab 1	Basic Human Anatomy		
	Week 3		
September 27	Bipedalism		
September 29	Early hominins - Sahelanthropus, Orrorin, Ardipithecus	Su 2013 (N.Ed)	
Lab2	Earliest Hominins		
	Week 4		
October 4	Early hominins - Interpretations	Gibbons 2009**	
October 6	Australopithecines - East Africa	Ward and Hammond 2016 (N.Ed)	
Lab 3	Lucy		
	Week s		
October 11	Australopithecines -South Africa		
October 13	Australopithecines -Adaptations I	Spoor 2015**	
Lab 4	Gracile Australopithecines		
	Week 6		
October 18	Australopithecines - Adaptations II	Smith and Alemseged 2013 (N.Ed)	
October 20	Paranthropus -Species and sites	Constantino2013 (N.Ed)	
Labs	Robust Australopithecines (Paranthropus)		
	Week7		
October 25	Paranthropus - Adaptations and MIDTERM REVIEW		
October 27	Mdterm Examination		
No Labs	NO LABSTHS WEEK		

	Week8			
November 1	Earliest Homo			
November 3	Early Homo-Variation in Erectines	Gibbons 2013**		
Lab 6	Homo - Habilines and Erectines			
	Week 9			
November s	Muddleinthe Middle: Middle Pleistocene hominins	Bae 2013 (N.Ed)		
November 10	NOCLASS-READING BREAK			
No Labs	NO LABS THIS WEEK			
	Week 10			
November 15	Early Homo Behaviour - Migration and Diet	Pobiner 2013 (N.Ed)		
November 17	Early Homo - Adaptations, Complications, and DNA			
Lab 7	Homo-Erectines and Heidelbergs			
	Week 11			
November 22	Modern Humans and Neandertals - Anatomy			
November 24	Running and energetics in <i>Homo</i> ; Guest Lecture - Dr. Campbell Rolian	Bramble and Lieberman 2004**		
Lab 8	Neanderthals and modern humans			
	Week 12			
November 29	Neandertals - Behaviour and extinction	Havarti 2013 (N.Ed); Monnier 2012 (N.Ed)		
December 1	Origins of Modern Humans	Tryon and Bailey 2013 (N.Ed)		
Lab 9	Make up labs and self-directed review of lab materials			
	Week 13			
December 6	The Hobbit: Homo floresiensis	Aiello 2010**; Baab 2012 (N.Ed)		
December s	Course Synthesis and FINAL EXAM REVIEW	McNulty 2016 (N.Ed)		
Lab 10	Lab Exam			
December 12-22	Final Exam (to be scheduled by the Registrar)			