

Introduction to Biological Anthropology

ANTH 1013 | M/W/F 10:45-11:35am | BELL 2282

Course Information

Biological anthropology is the scientific study of human biology within the framework of evolution. This course is divided into three parts. Each section of the course contributes to an overall understanding of human biological variation and human origins.

- **Part I** covers the basic principles of evolution and natural selection, as well as the fundamental genetics necessary for understanding the mechanics of inheritance.
- **Part II** presents an overview of non-human primates, introduces the variety of social systems found in non-human primates, presents an evolutionary framework for the study of social behavior in humans and other animals, and briefly reviews the fossil record for non-human primate evolution.
- **Part III** covers the fossil evidence for human evolution and the anatomical and genetic evidence for the origin of our species. In this section, we will also explore the origin of physical and genetic diversity within and between populations of extant humans, including concepts of race and ethnicity.

The course is designed to meet University and State standards as a core curriculum course. Each part of the course contributes to an overall understanding of the scientific method, human biology, and the process of evolution.

→ Students will receive independent grades for ANTH 1013 and ANTH 1011L.



YOUR INSTRUCTOR

Dr. Claire Terhune
Assistant Professor
Department of Anthropology

Contact Information:

cterhune@uark.edu

(479) 575-3529

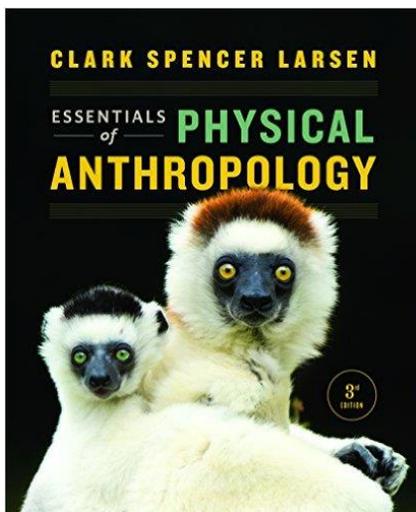
Old Main 334

Office Hours:

Monday 2:00-3:00 pm and

Tuesday 9:00 to 11:00am

or by appointment



*The purpose of anthropology is
to make the world safe for
human differences*

– Ruth Benedict

TEXTBOOK

Essentials of Physical Anthropology. 2016 (Third Edition). Clark Spencer Larson. W.W. Norton & Company, New York.



Course Requirements

EXAMS

- There will be **three** non-cumulative multiple choice exams held throughout the regular semester. A **fourth** cumulative final exam will be given during the final exam period. **YOUR LOWEST OF THE FOUR EXAM SCORES WILL BE DROPPED.**
- On exam days, students must bring their own scantron forms, and their university ID to sign the roster. The professor will retain the scantrons; however, students may see their scantron as soon as scores are posted on Blackboard.
- Several items are prohibited on exam days, including cell phones, tablets, electronic recording devices. **Using one of these items at any point during the exam (including while handing in the exam) violates the University's Academic Honesty policy.**

No Make-Up Exams, No Exceptions. If you miss an exam it is strongly recommended that you come by the Dr. Terhune's office to go over the exam so that you are prepared for the final. No extra credit is available.

CLASS ENGAGEMENT AND ATTENDANCE

Attendance and participation in class is strongly encouraged. To encourage engagement and to help students gauge their grasp on the course materials, there will be **six random attendance checks** spread across the semester. Each of these attendance checks will count for 2% of your grade, and one will be dropped; your attendance score will represent 10% of your total grade (i.e., 2% per check x 5 checks). Students must be present for at least half of the class period to receive attendance credit for that day. Students with university approved absences must provide documentation of this absence to the professor.

ONLINE QUIZZES

There will be three short mid-unit quizzes throughout the semester. Each quiz will represent 2% of your grade for a total of 6%. All three quizzes will be taken via Blackboard.

How do you succeed in this course?



DO attend class every day



DON'T forget to refer to the textbook



DO use your lab section to reinforce important concepts that are discussed in lecture



DON'T hesitate to visit Dr. Terhune's office hours if you have questions



DO learn the "language" of anthropology



DON'T wait until the last minute to study



DO be willing to go outside your comfort zone, especially when we discuss controversial topics such as race and evolution



DO calculate your grade so you know where you stand



CALCULATE YOUR GRADE

Your final grade will be calculated from your exam and quiz performance, and attendance score. The percentages represented by each item are as follows:

Exams= 84% (top three scores only, lowest dropped, 28% per exam)

Quizzes= 6% (three quizzes, 2% each)

Attendance= 10% (2% per attendance record x six attendance checks with one dropped)

To calculate your final grade, use the following equation:

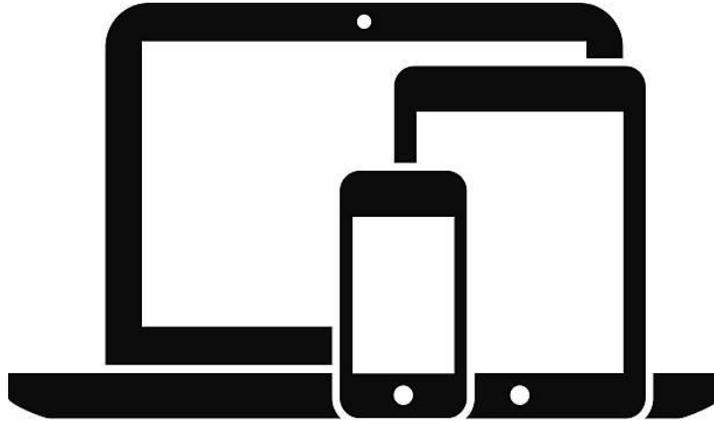
Your grade= (highest exam * 0.28) + (second highest exam * 0.28) + (third highest exam * 0.28) + (quiz 1 * 0.02) + (quiz 2 * 0.02) + (quiz 3 * 0.02) + ((attendance score/5*100) * 0.1)

GRADING SCALE

>90%	89.9-80%	79.9-70%	69.9-60%	<60%
A	B	C	D	E

*Grades are earned, not given, and they are not rounded up

Several studies have shown that note-taking on laptops is less effective than taking notes by hand, in terms of learning and retention. Research has also demonstrated that students who take notes on laptops tend to write what the professor/slides say verbatim, which leads to less integration of information and shallower processing, compared to students who take notes by hand (Mueller & Oppenheimer, 2014; <http://pss.sagepub.com/content/25/6/1159>).

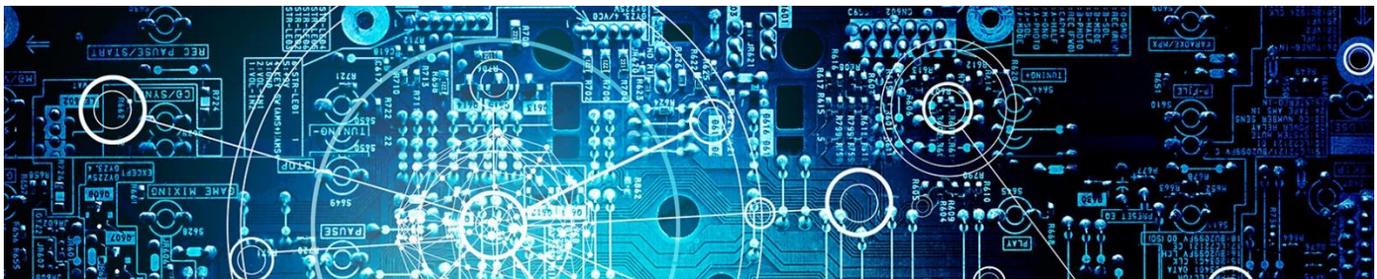


Technology Policy

The use of LAPTOPS, CELL PHONES, AND TABLET COMPUTERS is not permitted for any reason. This includes all of the following:

- Texting/ emailing/ using cell phones in any way
- Using cell phones to check the time
- Use of cell phones, tablets, or laptops to take notes

Students violating this rule will be given one warning and thereafter will be asked to leave class (and will not receive attendance credit for that day). Students with CEA accommodations may be exempt from this policy (depending on the nature of the accommodations), but any such students must speak directly with Dr. Terhune about this issue. If you have an emergency need to access your cell phone (illness, family/personal emergency, etc.) please see Dr. Terhune.



*We are more alike, my friend,
than we are unlike.*

– Maya Angelou



INCLUSION

A diverse representation of backgrounds and experiences is important for fostering an environment of critical thinking that is central to a university education. It is my expectation that everyone in ANTH 1013 will maintain respectful interactions with other students and instructors in this course. This includes respect for the variety of backgrounds and lived experiences, be they biological, cultural, and/or social, that everyone in this course brings. If at any point you feel disrespected in this class, please talk with me right away and I will do my best to address your concerns.



EDUCATIONAL ACCESS

University of Arkansas Academic Policy Series 1520.10 requires that students with disabilities are provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please verify your eligibility through the Center for Educational Access (see cea.uark.edu). If you are registered with CEA and require extra time for the exam, it is your responsibility to make an appointment with CEA. Your exam will be proctored by CEA staff at their testing center. Students with CEA accommodations are required to take their exams at the same time as those held in lecture, unless prior arrangements are made with the professor.

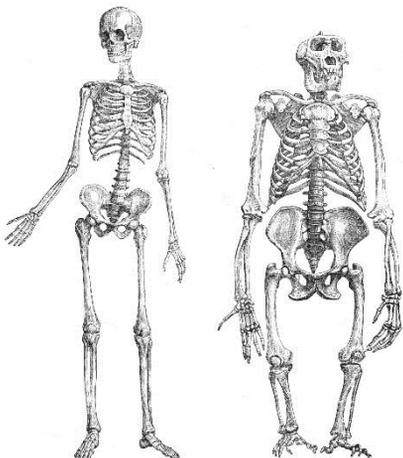


EMERGENCY PROCEDURES

Many types of emergencies can occur on campus; instructions for specific emergencies such as severe weather, active shooter, or fire can be found at emergency.uark.edu.

In case of violence and/or an active shooter, do the following:

- CALL- 9-1-1
- AVOID- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- DENY- Barricade the door with desk, chairs, bookcases or any items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it's safe.
- DEFEND- Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.





Academic Honesty

As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail.

Each University of Arkansas student is required to be familiar with and abide by the University's 'Academic Integrity Policy' at www.honesty.uark.edu/policy. Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.

Violations of the Academic Integrity Policy will not be tolerated. All suspected violations will be submitted to and adjudicated by the Academic Integrity Monitor following the guidelines outlined at www.honesty.uark.edu.

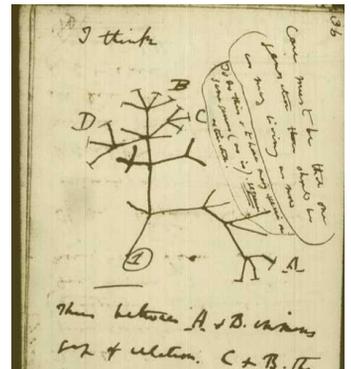
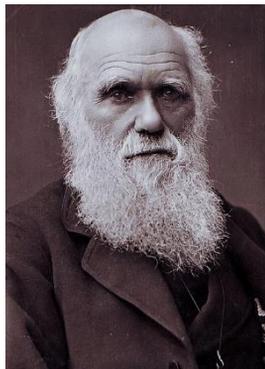
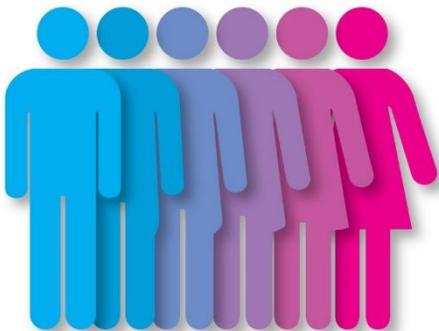
NOTES:

Class Schedule

UNIT 1: EVOLUTIONARY BIOLOGY

Week	Day	Date	Lecture Topic	Reading	Assignments
1	Wed	1/17/18	Introduction to Biological Anthropology	Ch 1	
	Fri	1/19/18	What is Anthropology? The Scientific Method	Ch 1	
2	Mon	1/22/18	History of Evolutionary Thought	Ch 2	
	Wed	1/24/18	History of Evolutionary Thought	Ch 2	
	Fri	1/26/18	History of Evolutionary Thought	Ch 2	
3	Mon	1/29/18	Mendelian Inheritance and Cell Biology	Ch 2	Evolutionary Theory Quiz
	Wed	1/31/18	DNA Replication/ Protein synthesis	Ch 3	
	Fri	2/2/18	Evolutionary Synthesis	Ch 4	
4	Mon	2/5/18	Evolutionary Synthesis	Ch 4	
	Wed	2/7/18	Evolutionary Synthesis	Ch 4	
	Fri	2/9/18	Evolutionary Synthesis	Ch 4	
5	Mon	2/12/18	Human Biological Variation and Adaptation	Ch 5	
	Wed	2/14/18	Unit 1 Catch-up/ Summary		
	Fri	2/16/18	Unit 1 Exam		

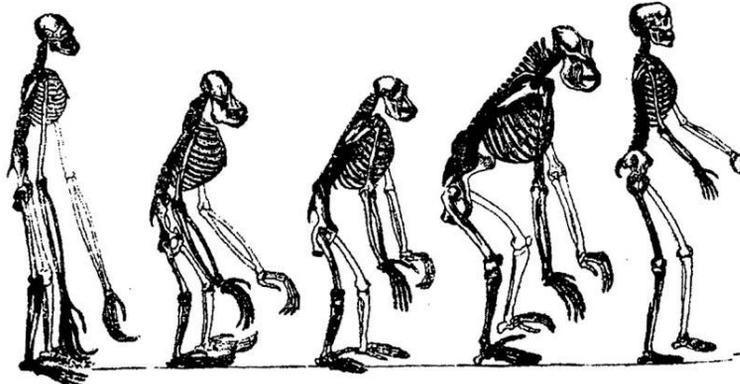
*Nothing in biology makes sense
except in the light of evolution
– Theodore Dobzhansky*



Class Schedule

UNIT 2: OSTEOLOGY AND PRIMATOLOGY

Week	Day	Date	Lecture Topic	Reading	Assignments
6	Mon	2/19/18	Growth and Development: Osteology and Bone Growth	Ch 5; Appendix: Skeleton	
	Wed	2/21/18	Osteology continued; Systematics	Appendix: Skeleton	
	Fri	2/23/18	Introduction to the Primates	Ch 6	
7	Mon	2/26/18	Survey of Living Primates: Lemurs and Lorises	Ch 6	
	Wed	2/28/18	Survey of Living Primates 2	Ch 6	
	Fri	3/2/18	Survey of Living Primates 3	Ch 6	
8	Mon	3/5/18	Primate behavior 1	Ch 7	Primate Taxonomy and Behavior Quiz
	Wed	3/7/18	Primate behavior 2	Ch 7	
	Fri	3/9/18	Introduction to Geology and Overview of Primate Evolution	Ch 8	
9	Mon	3/12/18	Primate Origins and Early Radiations	Ch 9	
	Wed	3/14/18	Introduction to Human Origins: Miocene apes	Ch 9	
	Fri	3/16/18	Overview of primate and human evolution	none	
10	Mon	3/19/18			
	Wed	3/21/18	Spring Break- No Class		
	Fri	3/23/18			
11	Mon	3/26/18	Unit 3 Catch-up/ Summary		
	Wed	3/28/18		Unit 2 Exam	



Gibbon

Orangutan

Chimpanzee

Gorilla

Man



Class Schedule

UNIT 3: HUMAN EVOLUTION

Week	Day	Date	Lecture Topic	Reading	Assignments
11	Fri	3/30/18	What is a Hominin?; Earliest Hominins	Ch 10	
	Mon	4/2/18	<i>Australopithecus</i>	Ch 10	
12	Wed	4/4/18	<i>Paranthropus</i>	Ch 10	
	Fri	4/6/18	Origin of Genus Homo	Ch 11	
	Mon	4/9/18	<i>Homo erectus</i>	Ch 11	
13	Wed	4/11/18	Middle Pleistocene Hominins	Ch 12	
	Fri	4/13/18	No Class		
	Mon	4/16/18	Neanderthals	Ch 12	
14	Wed	4/18/18	Modern Human Origins: Anatomy	Ch 12	Early Hominins Quiz
	Fri	4/20/18	Modern Human Origins: Genetics		
	Mon	4/23/18	The Peopling of the World	Ch 12	
15	Wed	4/25/18	The Last 10,000 Years and Ongoing Evolution	Ch 13	
	Fri	4/27/18	Human Variation Revisited: Race, Racism, and Ethnicity	Ch 5	
16	Mon	4/30/18	Unit 2 Catch-up/ Summary		
	Wed	5/2/18	Unit 3 Exam		

Mon 5/7/18 FINAL EXAM (10:15am-12:15pm)

