



ANTH 1013: Introduction to Biological Anthropology

Spring 2017, January 17- May 12, 2017

CLASS TIMES

Monday/ Wednesday/ Friday (Section 002), 10:45am-11:35am, BELL 2282

ANTH 1013 (Introduction to Biological Anthropology) and 1011L (Introduction to Biological Anthropology Lab), are co-requisites. You cannot drop either the lecture or lab independently.

CONTACT INFORMATION

Dr. Claire Terhune

Department of Anthropology

Old Main 336

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Office Hours: Monday 1:30-3:00 pm and Tuesday 9:00 to 11:00am, or by appointment

TEXTBOOK

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

COURSE DESCRIPTION

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, and presents an evolutionary framework for the study of social behavior in humans and other animals. The fossil record for non-human primate evolution is also briefly surveyed. **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. The course is designed to meet University and State standards as a core curriculum course. Each section 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.

ANTH 1013 (LECTURE) REQUIREMENTS

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 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.

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

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>). 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.

CALCULATING YOUR FINAL 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

A: 90 – 100%

B: 80 – 89.99%

C: 70 – 79.99%

D: 60 – 69.99%

F: Below 60%

HOW TO SUCCEED IN THIS COURSE

A study guide will be provided for your help on the course's Blackboard site. The study guide contains a brief summary of the material from each lecture that will be covered in the exam. **The list is not comprehensive and is intended only as a guide to help you study.** Furthermore, material from the book that is not covered in class is fair game for the exams.

A common theme repeated by struggling students is that they read over the notes, but got confused on the exam and couldn't remember what was what. Being familiar with the material is not the same thing as committing it to memory!

Students who do a few simple things tend to do well in the course. You must be aware that we will be dealing with a few very unfamiliar terms like "*Parapithecidae*" and "*Ardipithecus*". Unfortunately, these terms are part of the language of anthropology. It is **STRONGLY** recommended that you take a brief time within a day or two after each lecture and memorize such unfamiliar terms. Otherwise, if you wait until the night before the exam, you will be faced with trying to remember not only the words, but also certain key information associated with them. We also recommend that you approach the material from the general to the specific. For example, you cannot understand how alleles are segregated in a population without understanding the basic step-by-step processes of meiosis and mitosis. Likewise, it is a waste of time to study the differences between Apes, Old World Monkeys, and New World Monkeys without knowing what these groups are and what their names are! For example, for the third exam you want to memorize first the names of the hominin species, then the order that they appear in fossil record, then the actual dates when they lived, then the basic characteristics of each species.

ACADEMIC HONESTY

From the provost: "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,' which may be found at <http://provost.uark.edu>. Students with questions about how these policies apply to a particular course or assignment should immediately contact the instructor."

The "Policy on Academic Honesty" is at <http://provost.uark.edu/245.php> and the penalties for offenses are outlined are at <http://provost.uark.edu/246.php>.

DISABILITY RESOURCES

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 (contact 479-575-3104 or visit <http://cea.uark.edu> for more information on registration procedures). **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.

Severe Weather (Tornado Warning):

- Follow the directions of the instructor or emergency personnel.
- Seek shelter in the basement or interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside.
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building.
- Stay in the center of the room, away from exterior walls, windows, and doors.

Violence/Active Shooter (CADD):

- 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.

This syllabus is subject to change at the discretion of the professor.

CLASS SCHEDULE (Subject to Change)

Week	Day of the Week	Date	Lecture Topic	Reading	Assignments
1	Wednesday	1/18/2017	An Introduction to Biological Anthropology	Chapter 1	
	Friday	1/20/2017	No class		
2	Monday	1/23/2017	Historical Development of Evolutionary Theory	Chapter 2	
	Wednesday	1/25/2017	Historical Development of Evolutionary Theory	Chapter 2	
	Friday	1/27/2017	Historical Development of Evolutionary Theory	Chapter 2	
3	Monday	1/30/2017	Mendelian Inheritance	Chapter 2	Evolutionary Theory Quiz
	Wednesday	2/1/2017	Cell Biology	Chapter 3	
	Friday	2/3/2017	DNA Replication/ Protein synthesis	Chapter 3	
4	Monday	2/6/2017	Evolutionary Synthesis	Chapter 4	
	Wednesday	2/8/2017	Evolutionary Synthesis	Chapter 4	
	Friday	2/10/2017	Evolutionary Synthesis	Chapter 4	
5	Monday	2/13/2017	Human Biological Variation and Adaptation	Chapter 5	
	Wednesday	2/15/2017	Unit 1 Catch-up/ Summary	n/a	
	Friday	2/17/2017	Unit 1 Exam		
6	Monday	2/20/2017	Growth and Development: Osteology and Bone Growth	Chapter 5; Appendix: Skeleton	
	Wednesday	2/22/2017	Osteology continued; Systematics	Appendix: Skeleton	
	Friday	2/24/2017	Introduction to the Primates	Chapter 6	
7	Monday	2/27/2017	Survey of Living Primates 1	Chapter 6	
	Wednesday	3/1/2017	Survey of Living Primates 2	Chapter 6	
	Friday	3/3/2017	Survey of Living Primates 3	Chapter 6	
8	Monday	3/6/2017	Primate behavior 1	Chapter 7	Primate Taxonomy and Behavior Quiz
	Wednesday	3/8/2017	Primate behavior 2	Chapter 7	
	Friday	3/10/2017	Introduction to Geology and Overview of Primate Evolution	Chapter 8	
9	Monday	3/13/2017	Primate Origins and Early Radiations	Chapter 9	
	Wednesday	3/15/2017	Introduction to Human Origins: Miocene apes	Chapter 9	
	Friday	3/17/2017	Overview of primate and human evolution	none	

Week	Day of the Week	Date	Lecture Topic	Reading	Assignments
10	Monday	3/20/2017	Spring Break- No Class		
	Wednesday	3/22/2017			
	Friday	3/24/2017			
11	Monday	3/27/2017	Unit 3 Catch-up/ Summary		
	Wednesday	3/29/2017	Unit 2 Exam		
	Friday	3/31/2017	What is a Hominin?; Earliest Hominins		
12	Monday	4/3/2017	<i>Australopithecus</i>	Chapter 10	
	Wednesday	4/5/2017	<i>Paranthropus</i>	Chapter 10	
	Friday	4/7/2017	Origin of Genus <i>Homo</i>	Chapter 11	
13	Monday	4/10/2017	<i>Homo erectus</i>	Chapter 11	
	Wednesday	4/12/2017	Middle Pleistocene Hominins	Chapter 12	
	Friday	4/14/2017	Neanderthals	Chapter 12	
14	Monday	4/17/2017	Modern Human Origins	Chapter 12	Early Hominins Quiz
	Wednesday	4/19/2017	Modern Human Origins	Chapter 12	
	Friday	4/21/2017	No class		
15	Monday	4/24/2017	The Peopling of the World	Chapter 12	
	Wednesday	4/26/2017	The Last 10,000 Years and Ongoing Evolution	Chapter 13	
	Friday	4/28/2017	Human Biological Variation Revisited	Chapter 5	
16	Monday	5/1/2017	Unit 2 Catch-up/ Summary		
	Wednesday	5/3/2017	Unit 3 Exam		
	Monday	5/8/2017	FINAL EXAM (10:15am-12:15pm)		