

COURSE SYLLABUS: ISSUES IN HUMAN EVOLUTION LAB
ANTH 18631: Spring, 2010

FACULTY COURSE COORDINATOR: Dr. Marilyn Norconk (mnorconk@kent.edu)
OFFICE: 236 Lowry Hall; (330) 672-4123
OFFICE HOURS: TH 2-3 & by appointment

TEACHING ASSISTANTS: Kelly Droney (kdroney@kent.edu), Eric Henthorn (ehenthorn@kent.edu), Alana Muhlberger (amuhlber@kent.edu), Aidan Ruth (aruth1@kent.edu), Eric Seemiller (eseemill@kent.edu) & Zack Thomas (zthomas@kent.edu)

TA CONTACT INFORMATION: TAs will provide information on office hours at the first class meeting

ANTHROPOLOGY MAIN OFFICE: 672-4363 (Caroline Tannert, administrative assistant); 226 Lowry Hall

ABOUT THE COURSE: This course is a one credit-hour lab that accompanies Anthropology's LER course in Basic Sciences, Human Evolution – introduction to the evolution of the primate Order. The lab is a co-requisite; that is you must also be enrolled in or have taken Human Evolution to take the lab. The lab meets one day a week for 1 hour 40 minutes. Each week entails approximately one hour of reading outside of class **before** the next lab meeting. Discussion related to the reading assignment will take place beginning in the second meeting of the week.

It is essential that you be an active participant in these labs – whether during discussions of chapters you read, discussing and taking notes as you move through lab stations, or asking questions about the material as your TA presents each week's material at the beginning of the lab. Your TA is your source of information about the labs or more generally about biological anthropology and evolutionary biology.

The course is about the interactions between genes, physical structures, and behavior – in the context of human evolution and the evolution of the Order Primates. Looking ahead to the last day of class, there are 6 big ideas that you should be very familiar with. They are:

1. how natural selection works
2. how species evolve
3. how mutations are translated into physical changes, or not
4. that organisms are a complex set of inter-related traits determined by development, behavior, and environment
5. that humans are vertebrates, mammals, and primates; we are part of the rest of organic life, not separate from it or above it
6. that the world's resources are finite

Required materials:

1. Laboratory manual for Issues in Human Evolution (ANTH 18631) Spring 2010 is available for purchase at the **Campus Copy Connection**, 3rd floor KSU library (672-2679). This is an updated version, so please purchase this one.
2. Reading assignments will be made most weeks from Sandford, M.K. and Jackson, E.M., Classic and Contemporary Readings in Physical Anthropology (2008) Belmont CA: Wadsworth publishing. This book is available at local bookstores.
3. A Photographic Atlas for Physical Anthropology, brief edition. (2005) Whitehead, PF, Sacco W.K., Hochgraf, S.B. Englewood, CO: Morton Publishing. Available locally.

Attendance:

Lab attendance and participation is mandatory (40% of your grade!). We cannot emphasize strongly enough that your grade depends on attending and being an active participant in the labs. If you know that you will miss a lab meeting, you should contact your TA and plan to attend another section THE SAME WEEK. These should be rare occurrences. A note from the health service or doctor, or prior notification of an absence for a university-sponsored activity is required for an absence to be excused. Unexcused absences may affect your final grade (see Grading issues below).

Please be advised that if you miss one of the quizzes due to illness, you will be asked to take a make-up at a time specified by your TA.

No cell phone use during lab: Calling, receiving calls and texting, is prohibited during lab. Please turn your cell phones off (not, to vibrate!) when you come into the classroom.

Grading issues:

Three lab exams (quizzes) will be given in class –in week 5, week 10 and week 15 (last week of classes). Your TA will provide information on how the quizzes are structured. Each quiz will be worth 20% of your final grade (60% total); discussion during labs based on reading materials accounts for an additional 20% of your grade; and attendance accounts for 20%. **Together**, attending lab + participating in discussions make up **40%** of your course grade.

You may prepare and bring to the quiz one page of notes (8.5 x 11) double-sided. Otherwise, the quizzes are closed-book.

Grading scale: 93%+ A, 90-92.9% A-, 87-89.9% B+, 83-86.9% B, 80-82.9% B-, 75-79.9% C+, 70-74.9% C, 65-69.9% C-, 62-64.9% D+, 58-61.9% D, 55-57.9% D-, less than 55% F

Lab fee:

A \$15 lab fee was assessed when you enrolled in the course and is used to directly benefit the lab for supplies, particularly to obtain new or replace fossil human and primate casts, maps, instructional DVDs and genetics materials.

Handling delicate and expensive materials in lab: We are fortunate to have many authentic fossils and living primate casts for you to examine in this section of the course. Please handle the casts with care! We try to keep the casts in good condition, but if you find a problem with anything, let your TA know.

Student accessibility services: University Policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. **Please note, you must first verify your eligibility for these through Student Accessibility Services** (contact 330-672-3391 or visit www.kent.edu/sas for more information on registration procedures).

Cheating and plagiarism: We take issues related to cheating on quizzes and projects very seriously. That includes taking text directly from a source without giving credit to the author (plagiarism) and cheating, as in copying answers from each other during quizzes or from notes brought into class. KSU's digest of rules: "*Cheat*" means *intentionally to misrepresent the source, nature, or other conditions of academic work so as to accrue undeserved credit, or to cooperate with someone else in such misrepresentation. Cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied. "Plagiarize"* means to take and present as one's own a material portion of the ideas or words of another or to present as one's own an idea or work derived from an existing source without full and proper credit to the source of the ideas, words, or works.

Contact information for lab teaching assistants:

Name	Office number (all 2 nd floor Lowry Hall)	Contact email/phone number (not all TAs have phones in their offices; if necessary leave a message in the Anthropology office: 672-4363)
Aidan Ruth	216	aruth1@kent.edu ;
Alana Muhlberger	221	amuhlber@kent.edu
Eric Henthorn	214	ehenthor@kent.edu ;
Eric Seemiller	220	eseemill@kent.edu
Kelly Droney	218	kdroney@kent.edu ;
Zack Thomas	219	zthomas@kent.edu ;
		672-9351

Lab meeting times and (lab number):

Monday	Tuesday	Wednesday	Thursday	Friday
8-9:40 (1)	8-9:40 (4)	8-9:40 (5)	8-9:40 (8)	8-9:40 (9)
11-12:40 (2)		11-12:40 (6)		11-12:40 (10)
2:15-3:55 (3)		2:15-3:55 (7)		2:15-3:55 (11)

LAB SCHEDULE OF ACTIVITIES AND REQUIRED READINGS (please bring the lab manual, reader and/or photographic atlas to class with you and read the assigned reading before you come to class)

Week	Chapter in the lab manual Read before coming to class	Materials used in lab	Sandford & Jackson reader	Whitehead et al. photographic atlas
1 (1/18)	History of evolutionary theory: introduction to natural selection	lab manual		
2 (1/25)	DNA replication and protein synthesis	lab manual & DNA model building	Introduction and Chapters 1 & 9	
3 (2/1)	Cell division: meiosis and mitosis	lab manual	Chapters 4 & 6	
4 (2/8)	Mendelian inheritance & types of selection	lab manual	Chapters 13 & 20	
5 (2/15)	Introduction to living primates (follows 40-min quiz)	lab manual, skeletal material, quiz 1		Chapter 1 (please read this before coming to class)
6 (2/22)	Comparative primate skeletal anatomy	skeletal material, lab manual	Chapters 7 & 8	Reread ch 1 and scan ch 2.
7 (3/1)	Primate diet and locomotion	skeletal material, lab manual	Chapters 10 & 11	Chapter 2 (pp 10-28) read before coming to class
8 (3/8)	Primate behavior and conservation	video, lab manual, outside activity	Chapters 12 & 14	
9 (3/15)	Primate paleontology (follows 40-min quiz)	skeletal material, lab manual, quiz 2 (lab practical)		Chapter 3 (pp. 31-53)
10 (3/22)	The evolution of bipedality	skeletal material, lab manual	Chapter 15 & Ardi pdf	refer back to Chapter 2
3/29	SPRING BREAK			
11 (4/5)	The australopithecines	skeletal material, lab manual	Chapter 16 & Ardi pdf	Chapter 3 (pp 54-65)
12 (4/12)	Early <i>Homo</i> and <i>Homo erectus</i>	skeletal material, lab manual	Chapter 19	Chapter 3 (65-77)
13 (4/19)	Later <i>Homo</i>	skeletal material, lab manual	Chapter 17	Chapter 3 (78-96)
14 (4/26)	Modern human variation	skeletal material, lab manual	Chapter 21 & 22	
15 (5/4)		Final exam at your regularly scheduled lab time		