

Fall 2012

ANT 3514C – Introduction to Biological Anthropology

Department of Anthropology, University of Florida

- Time:** Tuesdays 8:30 – 9:20 am (Period 2)
Thursdays 8:30 – 10:25 am (Periods 2 & 3)
- Place:** 0101 Little Hall (Lectures)
B304 Turlington Hall Basement (Labs)
- Website:** <http://lss.at.ufl.edu> * click on (1) e-Learning in Sakai, (2) Log In:
ANT3514 - Introduction to Biological Anthropology (Krigbaum) – Fall 2012 - All Sections
- Contact:** To communicate via e-mail with the Instructor and/or Teaching Assistants, please use 'mail' in e-Learning in Sakai.
- Instructor:** Dr. John Krigbaum, Associate Professor
office: 1350A Turlington Hall
office hours: Thursdays 11:00-1:00, or by appointment
email: krigbaum 'at' ufl.edu
tel: (352) 392-2253 x243

Teaching

Assistants:

- Ellen Lofaro
office: B307 Turlington Hall
office hours: Fridays 10:00-12:00, or by appointment
- James Pampush
office: B373 Turlington Hall (closed-toe shoes required)
office hours: Tuesdays 2:00-4:00, or by appointment
- Allysha Winburn
office: B307 Turlington Hall
office hours: Wednesdays 1:00-3:00, or by appointment

Students are encouraged to seek help from any TA, not simply the one who proctors their assigned lab section.

Objectives & Goals

Anthropology is a holistic discipline. As such, anthropologists attempt to view humans, their activities, and their cultural and biological history in as broad a context as possible. Such a vast field is divided into a number of subfields, of which biological anthropology (= physical anthropology) will be introduced to you in this course. Its goal is to understand the biological nature and history of humankind and their living (= extant) relatives.

Biological anthropology is firmly rooted in evolutionary theory. The evolutionary biology of humans is thus the central focus of the course. We will cover many topics pertaining to the group of mammals that humans belong, the Order Primates. Basic concepts of genetics, geology, paleontology, comparative anatomy, primate biology, ecology, and material culture provide the foundation for understanding humanity's place in nature.

Fundamentals in biology and geology will be related to understanding the context and circumstances that have allowed our bodies and behaviors to change over time. The inheritance of genetic variation will be discussed as it relates to evolutionary change. Aspects of human biological variation, both genetic and "physical," will be discussed with respect to modern human

polymorphisms and the evolutionary forces affecting adaptation. “Primates” will be introduced as we learn about the fields of primatology, comparative anatomy, and conservation biology. We will learn about the newest techniques in molecular biology used to address a whole range of issues in evolutionary biology, wildlife conservation, and forensic anthropology.

Stepping far back in time, as paleoanthropologists, we will learn about some of the more significant fossil primate finds with particular emphasis on the common ancestor of humans and the African great apes. At about 2.5 million years ago, our genus *Homo* first appears in the fossil record. At about this same time the first evidence of material culture in the form of stone tools appears in the record. We will review the archeological and biological evidence of our hominin ancestry and focus on the biocultural revolution that took place from that time in prehistory to the present. Biomedical aspects of health and disease will be reviewed as will the overall state of the human condition.

Grading:

- Proctored Exams (N=3) 60 % (300 points)(3 exams, plus extra credit points)
- On-Line Quizzes (N=6) 5 % (25 points)(lowest score dropped)
- In-Class ‘pop’ Quizzes (N=3) 3 % (15 points)
- Labs (N=12) 32 % (160 points)(attendance, assignments, 2 exams)

Percentile Breakdown: 93.50-100 = A; 90-93.49 = A-; 86.5-89.49 = B+; 83.5-86.49 = B; 80-83.49 = B-; 76.5-79.99 = C+; 73.5-76.49 = C; 70-73.49 = C-; 66.5-69.99 = D+; 63.5-66.49 = D; 60-63.49 = D-; <59.99 = E.

All material covered in this course, be it lecture, reading, lab, etc. is fair game for exams.

TAKE GOOD NOTES !!

Grades will be determined out of 500 points. There is no organized review session prior to exams, but the TAs or Instructor may provide the opportunity to review. Key terms and concepts will be provided on e-Learning in Sakai each week. Exams will include objective questions (matching, multiple choice, true/false), and some problems to solve. Exams will not be comprehensive. Quizzes are scheduled to keep you “on top” of the material prior to exams. There will be one “extra credit” opportunity in addition to lab assignments that the TA’s will assign and grade. Awarded extra credit points (maximum of 20) will be added to the in-class point tally (340 points). Powerpoints of each lecture will not be made available online, but some key slides will be uploaded to Sakai each Week. Neither the instructor nor the teaching assistants will distribute lecture notes—**FYI: this semester’s lecture notes will be different from prior semesters.**

MAKE-UP EXAMS: Make-up exams will not be scheduled unless demonstrated illness, serious emergency, or major scheduling conflict with proof provided to the Instructor. An official letter, following infirmity procedures, is expected prior to the exam date so that a make-up exam can be arranged.

**** TURN OFF CELL PHONES IN CLASS ****

THAT MEANS NO TEXT MESSAGING, VIBRATING RINGERS, GAMES, ETC.
STUDENTS TEXT MESSAGING DURING EXAMS/QUIZZES WILL RECEIVE A “0”

NO PHOTOGRAPHY/RECORDING OF ANY KIND DURING LECTURE

REQUIRED Textbook:

Jurmain R, Kilgore L, Trevathan W, and Ciochon RL (2012)
Introduction to Physical Anthropology, 2011-2012 Edition. Belmont,
CA: Wadsworth.

ATTENDANCE

- Attendance is required to all lectures and labs. Students are responsible for *all* material covered in class lecture and lab.
- There will be three 'pop' quizzes during the semester.
- If you miss a class or lab due to extenuating circumstances, you may contact me via mail in Sakai to request access to the missed class powerpoint presentation.

Period – Time	Monday	Tuesday	Wednesday	Thursday	Friday
2 – 8:30 - 9:20	Lecture			Lecture	
3 – 9:35 - 10:25				Lecture	
4 – 10:40 - 11:30		Lab (0299) AW	Lab (7354) JP		
5 – 11:45 - 12:35		Lab (0300) AW	Lab (0303) JP		
6 – 12:50 - 1:40		Lab (0301) AW	Lab (0304) JP		
7 – 1:55 - 2:45			Lab (6990) EL		
8 – 3:00 - 3:50			Lab (7352) EL		
9 – 4:05 - 4:55			Lab (7353) EL		

Period – Time	Monday	Tuesday	Wednesday	Thursday	Friday
2 – 8:30 - 9:20	Lecture			Lecture	
3 – 9:35 - 10:25				Lecture	
4 – 10:40 - 11:30				JK Office Hours (11-1p)	EL Office Hours (10-12p)
5 – 11:45 - 12:35					
6 – 12:50 - 1:40			AP Office Hours (1-3p)		
7 – 1:55 - 2:45		JP Office Hours (2-4p)			
8 – 3:00 - 3:50					
9 – 4:05 - 4:55					

Accommodation

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Date	Lecture	Reading	Lab
		Textbook (Ch:pp);	(Required Downloads: Please print out via e-learning in Sakai "LAB DOWNLOADS" Monday by 5:00 pm for each week's lab.)
I. Introduction			
R	23-Aug	The Subfields	1:3-19
II. Evolutionary Basics			
T	28-Aug	Thinking Science	1:20-25; 2:27-36
R	30-Aug	Darwin and Co.	2:36-49
III. Genes			
T	4-Sep	Biological Basis of Life	3:51-79
R	6-Sep	A Genetics Primer	4:81-99
	7-10 Sep	on-line Quiz 1	
IV. Forces of Evolution			
T	11-Sep	Selection and Other Key Forces	4:100-109
R	13-Sep	Modern Evolutionary Theory	5:111-126
V. Human Variability			
T	18-Sep	Human Variation	15:433-459
R	20-Sep	Guest Lecture: Prof. Mulligan	16:461-481
	21-24 Sep	on-line Quiz 2	
VI. The Primate Order			
T	25-Sep	Introduction to the Primates	6:143-181
"	"	EXAM I -- CSE Testing Area, 5-9 pm	
R	27-Sep	Evolution of Primate Behavior I	7:183-200
VII. More Primates			
T	2-Oct	Evolution of Primate Behavior II	7:201-209; 8:211-237
R	4-Oct	Primate Ecology & Conservation	

**** NO LABS ****

LAB 1

Natural Selection

LAB 2

Mendelian Genetics

LAB 3

Evolutionary Forces

LAB 4

The Human Skeleton

LAB 5

Comparative Primate Anatomy

LAB 6

Primate Behavior

Date	Lecture	Reading	Lab
		Textbook (Ch:pp);	(Required Downloads: Please print out via e-learning in Sakai "LAB DOWNLOADS" Monday by 5:00 pm for each week's lab.)
VIII. Paleontology			
T	9-Oct	Fossils & This History of Life	5:126-138
R	11-Oct	Paleontology and Geological Context	check WEEK folder in Sakai
	12-15 Oct	on-line Quiz 3	
LAB			
			LAB Practical Exam I
IX. Primate Evolution			
T	16-Oct	Early Primate Evolution	9:239-263
R	18-Oct	Later Primate Evolution	9:262, 264-281
LAB 7			
			Primate Evolution
X. Hominin Origins			
T	23-Oct	Mio-Pliocene Hominins	10:283-287, 304-309
R	25-Oct	Australopiths	11:311-333
	26-29 Oct	on-line Quiz 4	
LAB 8			
			Mio-Pliocene Hominins
XI. Out and In and Out of Africa			
T	30-Oct	Plio-Pleistocene Hominins I	10:288-304; 11:333-339
"	"	EXAM II -- CSE Testing Area, 5-9 pm	
R	1-Nov	Plio-Pleistocene Hominins II	12:341-365
LAB 9			
			Plio-Pleistocene Hominins
XII. Transitional Hominins			
T	6-Nov	Transitional hominins	13:367-378
R	8-Nov	Neanderthals	13:378-401
LAB 10			
			Transitional Hominins

Date	Lecture	Reading	Lab
		Textbook (Ch:pp);	(Required Downloads: Please print out via e-learning in Sakai "LAB DOWNLOADS" Monday by 5:00 pm for each week's lab.)
9-12 Nov	on-line Quiz 5		
XIII. Modern Humans			LAB 11
T	13-Nov	Modern Human Origins	<i>Homo sapiens</i>
R	15-Nov	Modern Human Dispersal	
		14:403-431 check WEEK folder in Sakai	
XIV. The Human Experience			** NO LABS **
T	20-Nov	Bioarchaeology	
R	22-Nov	THANKSGIVING -- No Class	
		check WEEK folder in Sakai	
XV. Applied Approaches			LAB 12
T	27-Nov	Biocultural Anthropology	Forensic Anthropology
R	29-Nov	Forensic Anthropology, etc.	
30 Nov - 3 Dec		on-line Quiz 6	
		check WEEK folder in Sakai check WEEK folder in Sakai	
XV. What's Next?			
T	4-Dec	The Human Condition	LAB Practical Exam II
"	"	EXAM III -- CSE Testing Area, 1-5 pm	
		18:507-517	