HUMAN EVOLUTION ANTH-UA 2 SPRING 2013

Dr. Scott Williams (sawilliams@nyu.edu)

Office: 701 Rufus Smith Hall (25 Waverly Place) Office Hours: Wed 2:30-4:30, or by appointment

(4 credits) Evolutionary theory is the unifying theme of the natural sciences. This course provides a comprehensive introduction to the field of biological anthropology in which we explore our evolutionary history. The course covers human and population genetics, modern human biology and variation, primate osteology, behavior, ecology, and evolution, human osteoarcheology, and paleoanthropology. Particular emphasis is placed on the human fossil record.

Lecture: Tues/Thurs @ 2:00-3:15 in Cantor 101

Lab: 1 session per week as registered; Rufus Smith Hall (25 Waverly Pl), Room 204

LABS BEGIN THE 2nd WEEK OF CLASSES

002 W 9:30-10:45, AI: Saine

003 W 11-12:15, AI: Saine

004 W 12:30-1:45, AI: Ludeman

005 W 2-3:15, AI: Blaszczk

006 W 3:30-4:45, AI: Blaszczk

007 TH 9:30-10:45, AI: Villamil

008 TH 11-12:15, AI: Villamil

009 TH 12:30-1:45, AI: Ludeman

Office Hours/Contact Information – All offices are in 25 Waverly Place:

AIs: You may go to the office hours of ANY AI, not just the AI in charge of your lab.

Maryjka Blaszczk (mbb348@nyu.edu) Thurs 11:30-1:30, 4th floor laboratory

Elissa Ludeman (eml410@nyu.edu) Thurs 3:30-5:30, Room 901

Elle Saine (msaine@sas.upenn.edu) Wed 12:30-2:30, Room 702

Catalina Villamil (civ207@nyu.edu) Tues 3:30-4:30 and Thurs 12:30-1:30, Room 904

Textbook:

Stanford, Allen, Antón. Biological Anthropology, 3rd edition. Pearson: Prentice Hall, 2011.

Course Requirements:

There will be two in-semester exams (3/14 & 4/25; 22 points each), a final exam (5/21; 28 points), and lab reports and quizzes (28 points). **Exams are cumulative but will concentrate on new material.**

Point Distribution (*subject to modification*):

Exams	72
Lab reports/quizzes	_28
TOTAL	100

SCHEDULE (*subject to modification – check Classes frequently for schedule updates*)

Tuesday	Thursday	Lab
January 29th	January 31st	Week 1
What is biological anthropology?	Origins of evolutionary thought	NO LAB
Introduction	Chapter 1; Chapter 4, p. 101-104	
February 5th	February 7th	Week 2
Cellular & molecular biology	Mendelism & the mechanism of	Lab 1:
Chapter 2	inheritance Chapter 3	The human skeleton
February 12th	February 14th	Week 3
Evolutionary theory	Species & speciation	Lab 2:
Chapter 4, p. 93-101, 110-114 Appendix C	Chapter 4, p. 105-110	Forces of evolution & genetics
February 19th	February 21st	Week 4
Population genetics & human	Modern human variation	Lab 3:
adaptation Chapter 5, p. 127-152	Chapter 5, p. 117-126	Race
February 26th	February 28th	Week 5
Our place in nature	Survey of the living primates	Lab 4:
Chapter 6, p. 155-157	Chapter 6, p. 164-186	Anthropometry
March 5th	March 7th	Week 6
Primate comparative anatomy	Primate behavioral ecology	Lab 5:
Chapter 6, p. 158-162; Appendix B	Chapter 6, p. 162-164, 186-194 Chapter 7, p. 197-205	Comparative anatomy
March 12th	March 14th	Week 7
EXAM I	Primate societies	Lab 6:
Covers lecture material through 2/28 and material covered through Lab 4	Chapter 7, p. 205-219	Primate behavior I
March 19th	March 21st	Week 8
SPRING RECESS – NO CLASSES SCHEDULED	SPRING RECESS – NO CLASSES SCHEDULED	NO LAB
March 26th	March 28th	Week 9
Geological timescale & dating methods	Origin & evolution of early primates	Lab 7:
Chapter 8; Chapter 9, p. 277-282	Chapter 9, p. 255-264	Primate behavior II
April 2nd	April 4 ^h	Week 10
Evolution of anthropoids	Miocene hominoid evolution	Lab 8:
Chapter 9, p. 264-271	Chapter 9, p. 271-277	Cladistics
April 9th	April 11 th	Week 11
Bipedalism & the ape to hominin transition Chapter 10	AAPA meetings – NO CLASS	NO LAB

April 16th The earliest hominins & origin of Australopithecus Chapter 11, p. 307-324	April 18th Australopithecus & Paranthropus Chapter 11, p. 324-337	Week 12 Lab 9: Anatomy of bipedalism
April 23 rd The origin of the genus Homo Chapter 12, p. 341-355	April 25th EXAM II Covers lecture material through 4/9 and material covered through Lab 9	Week 13 Lab 10: Human fossil record I
April 30th Homo erectus & dispersal from Africa Chapter 12, p. 355-375	May 2nd Homo heidelbergensis & Neandertals Chapter 13	Week 14 Lab 11: Human fossil record II
May 7th Modern human origins & biogeography Chapters 14	May 9th OPTIONAL ALTERNATE FINAL During regularly scheduled class	Week 15 Lab 12: Human fossil record III
May 14th READING DAY – NO CLASSES SCHEDULED	Tuesday, May 21st, 2:00-3:50 FINAL EXAM Comprehensive but focusing on lecture material from 4/16 and labs 10-12.	Week 16 NO LAB