



INTRODUCTION TO HUMAN EVOLUTION
Summer 2009
UC Santa Cruz
Class time: M, W 5-8:30pm

This course provides an overview of the field of physical anthropology and its unifying themes. Human evolution is viewed in the context of evolutionary theory, through our current understanding and interpretation of the fossil record, and in comparison with the evolution, biology and behavior of the other primates. We will begin with a discussion on the history of evolutionary theory, and Darwin's theory of natural selection. We will then proceed with a discussion on the relationship between humans and extinct and living primates and then move to a focus on the fossil record. The course will wrap up with a discussion of modern human variation and highlights within the field of physical anthropology.

At the completion of the course, students are expected to have a working knowledge of evolutionary theory and be able to discuss the general trends in human evolution with reference to major fossils and to the other non-fossil evidence. An understanding of the features that distinguish the primates both anatomically and behaviorally will also be expected. Finally, students should be able to discuss how physical anthropology has uses within our contemporary world and has helped shape of our understanding of human variation.

Important Summer Session 2009 Dates

	Session I	7-wk Sess	8-wk Sess	10-wk Sess	Session II
Last day to enroll/add online	June 27 (Sat) (11:59 PM)	June 27 (Sat) (11:59 PM)	June 27 (Sat) (11:59 PM)	July 4 (Sat) (11:59 PM)	Aug 1 (Sat) (11:59 PM)
Last day to drop online	June 28 (Sun) (11:59 PM)	June 28 (Sun) (11:59 PM)	June 28 (Sun) (11:59 PM)	July 5 (Sun) (11:59 PM)	Aug 2 (Sun) (11:59 PM)
Withdrawal period at Summer Office (no refund)	June 29 – July 10 (8:00-4:00)	June 29 – July 17 (8:00-4:00)	June 29 – July 24 (8:00-4:00)	July 6 – July 31 (8:00-4:00)	August 3 – August 14 (8:00-4:00)
Note that during Summer Session there is no auditing of classes, no "Add by Petition" and no "Administrative Drop by Instructor". Failure to attend class does not constitute a "Drop". All deadlines are final.					

Instructor:
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TA:
 Brent Crosson

Instructor Office Hours:
 TBA
 Please email in advance for office hour appt.

Texts: Required:
 Stanford, C., Allen, J.S., Anton, S.C. Biological Anthropology 2nd Edition.
 Angeloni, Elvio. (Ed.) Annual Editions in Physical Anthropology 09/10

In addition to Monday and Wednesday lectures, Wednesday lab sections will be held in Osteology lab rooms in Social Sciences One fourth floor. Labs will present new information and will afford the opportunity for "hands-on"

work with skeletal and fossil cast material. They will also provide a format for discussion of lecture and reading information. Attendance in lab and completion of lab assignments is required for this course.

Evaluations:

Evaluations will be based on examinations, homework, and attendance/participation. Attendance and participation in class is mandatory, attendance will be taken at random and is worth 5% of your grade. There will be 4 quizzes consisting of an objective portion (multiple choice, t/f, fill-in, and matching, short answer) which will be completed in class every Monday beginning the second week of class. In addition, some quizzes may have a take home essay portion (which will be handed out in class on Monday and due on Wednesday). These quizzes will cover, reading materials, lecture materials and lab materials. Each quiz, (objective section + essay) is worth 10% of your final grade (40% total). Each Wednesday a lab section will be held in the second half of the lecture time during which students will complete assigned lab homework, lab participation and homework are worth 20% of your final grade. A cumulative final exam will be given on the last day of class, and will be worth 35% of your final grade. For disability accommodations outside of regular testing periods, please see the instructor at least one week prior to the test. Late papers, homework, labs will not be accepted. Missing in class exams will result in a zero, there will be no make-up exams without a doctor's written note.

Class Schedule:

Readings are to be completed PRIOR to the day they are assigned. Come to class prepared to discuss the materials.

Lecture, Lab and Quiz Schedule:

July 27	Introduction, Development of Evolutionary Theory Biological basis of life DNA Genes, proteins	(BA Chaps 1,2,3) (A.E #1: The Facts of Evolution)
July 29	Inheritance of traits Population genetics Macro- and micro evolution Modern Synthesis	(B.A. Chap 4,5,6) (A.E.#3: Evolution in Action)
Aug 3	Human and Primate Classification/ primate overview Primate Behavior / Primate evolution Lab 1 : Human osteology + primate and human osteological comparison ***QUIZ 1*****	(B.A. Chap 7,8) (A.E #8 The 2% difference)
Aug 5	Apes and monkeys in the fossil record Origins of primates FILM: Monkey in the mirror Lab 1 Homework due in Class	(B.A. Chap 9-10) (A.E #11 Dim Forest Bright Chimps)
Aug 10	Origins of bipedalism, Hominid Origins FILM : Search for the first human *****QUIZ 2*****	(B.A Chap 11-12) (A.E# 22 Hunting the first hominid)
Aug 12	Genus Homo LAB2 : Early hominids and GENUS HOMO	(B.A. Chap 13) (A.E #25 Made in Savannahstan)
Aug 14	Archaic Homo Sapiens and Neanderthals LAB 3: Homo sapiens and Neanderthals ***QUIZ 3***** Lab 2 Homework Due in Class	(B.A. Chap 14) (A.E #30 Rethinking Neanderthals)
Aug 17	The origin and dispersal of Homo sapiens FILM : Journey of Man Lab 3 Homework due in class	(B.A. Chap 15) (A.E. #33 The littlest Human)
Aug 19	Modern human variation and adaptation Brain, language, behavior FILM : The Minds Big Bang *****QUIZ 4*****	(B.A. Chap 16, 18) (A.E. #34 Skin deep, A.E #43 Curse and Blessing of the Ghetto)
Aug 24:	Forensic anthropology LAB4: Forensic anthropology	TBA
Aug 26	FINAL exam Lab 4 Homework due	

*******Please note : This syllabus is not a contract. Changes to this syllabus may be made during the course of the quarter.**

Other important information:

Web-CT: All lectures, will be posted on webct. The following website will give you instructions on signing in and utilizing this service.

<http://ic.ucsc.edu/webct>

Plagiarism and cheating: The University's policy on academic honesty will be observed in this class. Plagiarism is the conscious or inadvertent failure to identify the contributions of others. Cheating is falsely passing off the work of others as your own. Neither will be tolerated evidence of either will result in persecution to the furthest extent of the law.