ANTH/ARCP202 Paleoanthropology (Fall 2013)
(WF, 1:10-2:30, Exley Science Center 121)

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Course Description
Paleoanthropology is the study of human origins, of how we evolved from our apelike ancestors into our modern form with our modern capabilities. Drawing on both biological anthropology (the study of fossils, living primates, and human variation) and archaeology (the study of material culture, such as tools, art, and food remains), the course will examine what we know about our own evolutionary past and how we know it.

Readings and PowerPoints
All readings will be available as .pdf files on Moodle. Selections should be read before class on the day they are listed on the syllabus. PowerPoint presentations used in class will also be put up on Moodle after each class for your reference.

Examinations and Assignments
Two essays (20% of grade each), laboratory assignments (10%), a mid-term exam (20%), and a final exam (30%).

Lab Sessions
On those days when lab sessions are held (note schedule), students will meet in Exley Science Center 351 at assigned times (to be determined). Lab attendance is required and labs are not graded per se, but points will be deducted if they are not completed and turned in. Information from the labs may appear on exams. PLEASE NOTE: there will be no make-up labs.

Disability Resources
Wesleyan University is committed to ensuring that all qualified students with disabilities are afforded an equal opportunity to participate in and benefit from its programs and services. To receive accommodations, a student must have a documented disability as defined by Section 504 of the Rehabilitation Act of 1973 and the ADA Amendments Act of 2008, and provide documentation of the disability. Since accommodations may require early planning and generally are not provided retroactively, please contact Disability Resources as soon as possible.

If you believe that you need accommodations for a disability, please contact Dean Patey in Disability Resources, located in North College, Room 021, or call 860-685-2332 for an appointment to discuss your needs and the process for requesting accommodations.
Course Outline

September

4 Introduction

6 Darwin’s Theory to 1970
   Readings: Bowler, “The Development of Darwin’s Theory”
              Tattersall (FT), “The Synthesis”

11 Video: “Fit to Rule”

13 Darwin’s Theory Now
   Readings: Gould, “The Triumph of Homology”
              Gould and Eldredge, “Punctuated Equilibrium Comes of Age”
              Tattersall (FT), “Theory Intrudes”

18 Comparative Anatomy
   Readings: Conroy, “Humans as Primates”
             Gould and Lewontin, “The Spandrels of San Marco and the Panglossian Paradigm”
             Held, “The Evolutionary Geometry of Human Anatomy”

   First essay assigned (due in class, Sept. 27th)

20 LAB: Human and Comparative Anatomy

25 Primates (and Mammals)
   Readings: Boyd and Silk, “Primate Diversity and Ecology”

27 Video: “Life in the Trees”

   First essay due in class

October

2 Models of Hominin Behavior
   Readings: Boesch and Boesch-Achermann, “Dim Forest, Bright Chimps”
             de Waal, “Apes from Venus”
             Kano, “The Bonobo’s Peaceable Kingdom”
             Martin, “Strategies of Reproduction”
             Stanford, “To Catch a Colobus”

4 LAB: Comparative Primate Anatomy

9 Video: “The New Chimpanzees”
EXAM

Dating and Context
Readings: Conroy, “Finding and Dating Fossil Hominins”
Lewin, “The KBS Tuff Controversy: Genesis”
Lewin, “The KBS Tuff Controversy: Denouement”

Video: “Mysteries of Mankind”

FALL BREAK (no classes that week)

7-2.5 MYA
Readings: Aiello and Andrews, “The Australopithecines in Review” (note last page)
Harcourt-Smith, “The Origins of Bipedal Locomotion”
Tattersall (MP), “Early Hominid Lifestyles and the Interior World”

November
1 LAB: Australopithecines and Early Hominins

6 2.5-1.8 MYA
Readings: Foley and Lahr, “On Stony Ground”
Tattersall and Schwartz, “Evolution of the Genus Homo” (pp. 68-70)

Second essay assigned (due in class, Nov. 13th)

8 LAB: Habilines and Tools

13 2 MYA-300 KYA
Roach, “Elastic energy storage in the shoulder and the evolution of high-speed throwing in Homo”
Tattersall and Schwartz, “Evolution of the Genus Homo” (pp. 70-77)

Second essay due in class

15 2 MYA-300 KYA (cont.)
Tattersall (MP), “Life on the Savanna”
Tattersall and Schwartz, “Evolution of the Genus Homo” (pp. 77-82)

20 300-50 KYA
Readings: Churchill, “Cold Adaptation, Heterochrony, and Neandertals”
Harvarti, “Neanderthals and Their Contemporaries”
22 LAB: *Homo ergaster/erectus*, Neanderthals, *Homo sapiens*

*THANKSGIVING BREAK* (no classes that week)

December

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<td>Readings:</td>
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6 50-10 KYA (cont.)

Final exam Wednesday, Dec. 11th, 9:00 am-12:00 noon.
Bibliography for PDFs on Moodle:


