

ANTHROPOLOGY 1 - INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

Professor Deacon - Spring 2013 - Syllabus & requirements

Date Lecture topic & reading assignments

- 22-Jan Biological anthropology: history and the importance of evolution
- 24-Jan The fact of evolution and the theory of natural selection
Lab section: none.
Readings (to do for the week listed): BA Intro & Ch 1; HECB 1.1-1.9
- 28-Jan Evolutionary fallacies and the revolutionary impact of the discovery of genes
- 31-Jan Molecular basis of evolution and organism function
Lab 1: Natural selection.
Readings: BA 2-3; HECB 1.10-2.5
- 5-Feb Evolution from a gene's perspective
- 7-Feb Evolution of sex and death
Lab 2: Genes, sex, and evolution
Readings: BA 4 (5 later); HECB 2.6-2.15; bSpace
- 12-Feb Sexual selection and kin selection
- 14-Feb Parenting ecology and social organization
Lab 3: Behavioral evolution
Readings: BA 6; HECB 3.23-3.31; bSpace
- 19-Feb Kin selection, social cooperation, and the origin of primates
- 21-Feb Primate origins: prosimians, and New World monkeys
Lab 4: Taxonomy, anatomy and ecology of primates
Readings: BA 7; HECB 3.1-3.18, 4.1-4.24
- 26-Feb Monkeys: locomotion, feeding ecology, and social systems
- 28-Feb From monkeys to apes: gibbons & orangutans
Lab 5: Primate social & ecological behavior
Readings: BA 8-9; HECB 3.23-2.35
- 5-Mar African apes
- 7-Mar From great apes to hominins
Lab 6: Great apes
Readings: BA 10 & Appendix B: HECB 4.25-4.36
- 12-Mar MIDTERM EXAM [Review session to be announced]**
- 15-Mar Ardipithecines and Australopithecines
Lab 7: Evolution and anatomy of early hominids
Readings: BA 11-12; HECB 5.1-5.20
- 19-Mar Early Homo
- 21-Mar Neanderthals and archaic Homo sapiens
Lab 8: Evolution and anatomy of the genus Homo
Readings: BA 13; HECB 5.21-5.30
- 26-Mar SPRING BREAK**
- 2-Apr Emergence and Diversity of Modern Humans

- 4-Apr Rise of modern humans: lice & hair, pigment & race, brain & intelligence
 Lab 9: Modern human origins and variation
 Readings: BA 6 & 14; HECB 6.13-6.16; bSpace
- 9-Apr Basic anatomy and functional organization of the brain
- 11-Apr Brain development: Nature X nurture
 Lab 10: Basic neuroanatomy & brain evolution
 Readings: BA Appendix A; HECB 3.19-3.22; bSpace
- 16-Apr Learning biases, sensitive periods, and evolutionary constraints
- 18-Apr Language evolution and the brain
 Lab 11: Brain and language
 Readings: BA 15; bSpace
- 23-Apr Human birth & sexual differentiation
- 25-Apr Unique human life history
 Lab 12: Hormones, growth & sexual differentiation
 Readings: BA 16; HECB 6.1-10; bSpace
- 30-Apr Niche construction and bio-cultural interactions
- 2-May Maladaptation and modern life
 Lab 13: Human life cycle and adaptations
 Readings: BA 17; bSpace [BA 18 optional]
- 6-May [RRR week, review session at usual class place and time]**

FINAL EXAM GROUP 15: THU 16 MAY 3-6 PM

Requirements: Attendance at all lectures & sections; completion of all quizzes & exams.

Grading: Weekly quizzes = 30%, midterm exam = 30%, final exam = 40%.

Lectures: Wheeler Auditorium Tue & Thu @ 12:30 - 2 PM

Discussion sections/labs (weekly): Barrows basement room 65, beginning in week 2.

You **MUST** be enrolled in a discussion/lab section to be in this course.

Weekly Quizzes: Quiz questions are published online (bSpace website) each week prior the relevant section. Selected questions will be chosen from these for a closed book quiz given at the beginning of each section (no make-ups); bring a small blue book to the first section meeting.

Texts: Required texts are available at Cal bookstore.

BA = Biological Anthropology. Stanford, Allen, Anton (required)

HECB = Human Evolution Coloring Book (2nd ed.), Zihlman (required)

bSpace = Course website (required quizzes, required e-readings, lecture slides)

Website: There is a bSpace website set up for this course <bSpace.berkeley.edu>.

Materials include: required supplementary readings (not available in the text books), all quiz questions, announcements, and lecture slides. These materials will **NOT** be handed out on paper, but for those with difficulty accessing the website, limited numbers of printed versions of quiz questions will be available at the GSI office in Barrows basement room 72.

Prof. Deacon's office: 329 & 213 Kroeber, office hours Thu 2:30-4:30; or by appointment.

Email: deacon@berkeley.edu (indicate "Anthro 1" in Subject line)