

**ANTHROPOLOGY 104
PHYSICAL ANTHROPOLOGY**

WINTER 2008

Prof. Bruce J. Bourque
Office: 155 Pettengill, 786-6080
Office hours: T,Th 3-4:00 & by appointment

About the Course:

This course will introduce you to the study of human evolution. Class work will consist of lectures, discussion sessions, laboratories, and films. Your **attendance** and active **participation** in class work will be important to your success in the course. Plan to complete assigned readings before the next scheduled class, and be prepared to discuss them. Your grade will be based mainly upon two exams, and one computer simulation project.

Course materials:

Campbell, B. G., J. D. Loy and Cruz-Uribe 2006 Humankind Emerging. Little Brown.

Omohundro, J. and K. Goodman 1992 Mystery Fossil II. Mayfield.

Class and Reading Schedule:

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| 8 Jan | Introduction. Course description, requirements, and procedures. Read Campbell et al., ch. 1. |
| 10 | The Search for Human Origins Read Campbell et al., ch.2. |
| 15 | Evolutionary Mechanisms Heredity and evolution. Read Campbell et al., ch.3. |
| 17 | Humans among the Primates Read Campbell et al. ch.4:90-110. |
| 22 | Behavior of Living Primates. Film: The Lemurs of Madagascar Read Campbell et al., ch. 4:110-129. http://www.bbc.co.uk http://www.eskeletons.org/ ; To learn about a female-run monkey society visit: http://magma.nationalgeographic.com/ngm/0211/feature4/index.html?fs=www3.nationalgeographic.com&fs=plasma.nationalgeographic.com . |
| 24 | Behavior of Living Primates. Film: Baboon Tales. Mammal dentition and skeleton. Read Campbell et al., ch. 5. |

- 29 **Apes and Other Ancestors. Primate Identification. Film: The New Chimpanzee.** <http://www.bbc.co.uk/science/cavemen/> Read Campbell et al., ch. 6.
- 31 **The South African Hominins. Begin to learn the human skeleton by visiting these web sites:**
<http://www.eskeletons.org/>
<http://www.bio.psu.edu/faculty/strauss/anatomy/skel/skeletal.htm>
Primate morphology and behavior. Read Campbell et al., ch. 7.
<http://www.bbc.co.uk/science/cavemen/>
- 5 Feb **East Africa and the Sahel.** Read Campbell et al., ch. 8.
- 7 **Apes to hominids.** Read Campbell et al., ch. 9.
To view primate skulls visit <http://www.anth.ucsb.edu/projects/human/>
<http://www.pictographics.com/apmp.files/apmp.homepage12>.
Evolution of Hominin Behavior. Quiz — Human skeleton. Skull lab I. Read Campbell, et al., ch. 10:262-273.
- 14 **Exam on chapters 1-8.** Hominid behavior & *Homo erectus*. Read Campbell, et al., ch. 10:273-286.
- Winter recess: 16-24 February**
- 26 **Discovering Homo erectus. Skull lab II.** Read Campbell et al., ch. 11. For information on **human origins** go to:
<http://www.mnh.si.edu/anthro/humanorigins/> and
<http://www.geocities.com/palaeoanthropology/Hergaster.html>.
- 28 **Environment, Technology, and Society of *Homo Erectus*.** Read Campbell et al., ch. 12.
- 4 March ***Homo heidelbergensis*.** Read Campbell et al., ch. 14. **Start "Mystery Fossil."**
- 6 **Evolution of Language and the Brain. Film: Out of Asia.** Read Campbell et al., ch. 14.
- 11 **The Neanderthal Enigma. Skull lab III.** To read about the Neanderthal “flute” go to <http://www.greenwych.ca/fl-compl.htm>. Read Campbell et al., ch. 15.
- 13 **The Final Transformation. Film: Quest for the first language.**
<http://www.bbc.co.uk/science/cavemen/> Read Campbell et al., ch. 16.
<http://news.bbc.co.uk/1/hi/sci/tech/787918.stm>.
- 18 **The Advent of Modern Culture. Hominid identification.** The advent of modern culture. Read Campbell et al., ch. 17.

- 20 **The Human Condition.**
http://www.ornl.gov/TechResources/Human_Genome/home.html<http://www.bbc.co.uk/science/cavemen/> Read Fagan:71-96.
- 25 **Humans come to the New World.** Read Fagan: 17-32.
- 27 **Completing the circle: Europeans meet Indigenous Americans. "Mystery Fossil" due.**
- 1 April **Genetic variation among modern humans.**
- 3 Review for exam.