

Spring 2015
ANT 4468 – Health and Disease in Human Evolution

Department of Anthropology, University of Florida

Time: Tuesdays (Periods 5-6), Thursdays (Periods 6)

Place: B304 Turlington Hall Basement

Website: <http://lss.at.ufl.edu> * E-Learning in Sakai

Instructor: Dr. John Krigbaum, Associate Professor
office: 1350A Turlington Hall
office hours: TBD
e-mail: krigbaum@ufl.edu (* best contact method *)
tel: (352) 294-7540

Course Overview *Mortui viventes docent* (“the dead are our teachers”)

Health and the human condition have long been an area of interest in anthropology. Throughout human evolution, biological and cultural factors have influenced human vulnerability to disease. Likewise, disease producing organisms (pathogens) have undergone their own evolution within the human arena. Such co-evolution of humans and pathogens varies in modern human groups because of our adaptation to a wide diversity of habitats. Different ecological contexts present their own set of health problems humans must adapt to.

This course will examine human health and disease from both an evolutionary and an ecological perspective. Environmental, genetic, physiological, and cultural factors will be reviewed as to their role in affecting the well-being of different prehistoric and recent human populations. Skeletal pathologies present in the body (indicative of infectious disease, poor nutrition, or physical activity) will be introduced and discussed with respect to the inferred quality of adaptation of past individuals and populations

Grading (out of 500 possible points)

- 350 points – three “in class” exams (Exam 1 and 2 - 100 pts each; Exam 3 (comprehensive) April 21 - 150 pts)
- 100 points – class paper/project (web page & 10 minute class presentation, 50 pts each)
- 20 points – two in-class quizzes
- 30 points – misc. homework
- 10 points – each unexcused absence

percentile breakdown: 93.50-100 = A; 90-93.49 = A-; 86.5-93.49 = B+; 83.5-86.49 = B; 80-83.49 = B-; 76.5-79.99 = C+; 73.5-76.49 = C; 70-73.49 = C-; 66.5-69.99 = D+; 63.5-66.49 = D; 60-63.49 = D-; <59.99 = E.

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

REQUIRED TEXTS

Roberts, C. and Manchester, K. (2005) *The Archaeology of Disease*, 3rd edition. Ithaca: Cornell University Press.

Weiss, E. (2015) *Paleopathology in Perspective*. New York: Rowman & Littlefield.

RECOMMENDED TEXTS

Brothwell, D.R. (1981) *Digging Up Bones*, 3rd edition. Ithaca: Cornell University Press.

Dobson, M. (2008) *Disease: The Extraordinary Stories Behind History's Deadliest Killers*. Quercus Books.

Larsen, C.S. (1999) *Bioarchaeology: Interpreting Behavior from the Human Skeleton*. Cambridge: Cambridge University Press.

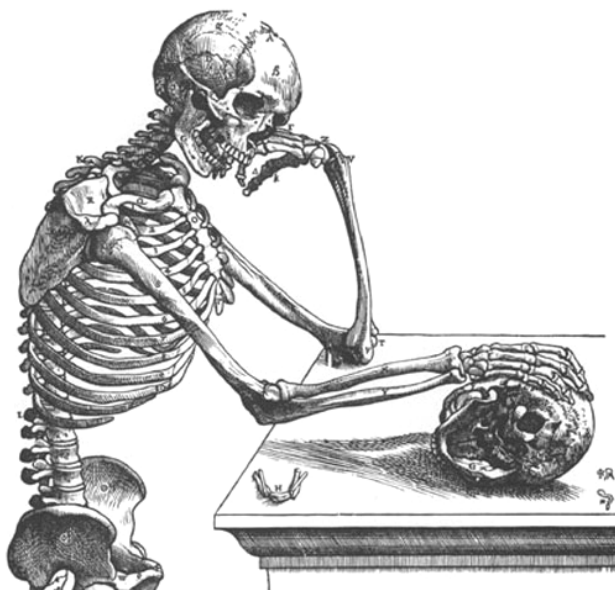
Lieberman, D.E. (2009) *The Story of the Human Body: Evolution, Health, and Disease*. New York: Vintage.

Sapolsky, R.M. (2004) *Why Zebras Don't Get Ulcers*, 3rd edition. New York: Holt.

E-Books

Cox, M. and Mays, S. (2000) *Human Osteology In Archaeology and Forensic Science*. London: Medical Media Ltd.

Mays, S. (2002) *The Archaeology of Human Bones*. New York: Routledge.



Date **Class Schedule -- ANT 4468 *Health & Disease in Human Evolution***

I. Introduction

T 6-Jan Introduction
R 8-Jan

II. The Human Skeleton

T 13-Jan
R 15-Jan

III. Paleopathology Basics

T 20-Jan
R 22-Jan

IV. Evolutionary Perspectives

T 27-Jan
R 29-Jan Exam I

V. Hominid Perspectives

T 3-Feb
R 5-Feb

VI. Dental Disease

T 10-Feb
R 12-Feb

VII. Congenital Disease

T 17-Feb
R 19-Feb

VIII. Joint Disease

T 24-Feb
R 26-Feb Exam 2

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IX. Spring Break

T 3-Mar No Class
R 5-Mar No Class

X. Infectious Disease

T 10-Mar
R 12-Mar

XI. Trauma

T 17-Mar Guest Lecture: Dr. Michael Warren
R 19-Mar Guest Lecture: Ellen Lofaro

XII. Historical Approaches

T 24-Mar Guest Lecture: Dr. James Davidson
R 26-Mar No Class -- work on presentations

XIII. Metabolic, Endocrine & Neoplastic Disease

T 31-Mar
R 2-Apr

XIV. Student Presentations

T 7-Apr Presentations
R 9-Apr Presentations

XV. Recap

T 14-Apr Presentations & Review
R 16-Apr No Class (SAAs)

XVI. Exam

T 21-Apr Exam 3