ANATOMY AND BIOLOGY OF THE HUMAN SKELETON

SYLLABUS

ANTHROPOLOGY 366 (30535) FALL 2009

INSTRUCTOR: Prof. John Kappelman (jkappelman@mail.utexas.edu)
Office: EPS 2.132, telephone: 471-0055
Office hours: Tu Th 10-11 pm or by appointment

CLASS MEETINGS

Tu and Th: 8:30 – 11.00 am in EPS 2.102 (10-11 am: self-study in the lab)

PRERQUSITES

- Anthropology 301 and six semester hours of upper-division coursework in natural or social science, or permission of the instructor.
- Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.

DESCRIPTION (see the Blackboard course website: click *HERE*)

This course introduces the student to an in-depth study of the human skeleton. Class sessions combine lecture and laboratory sessions and cover topics including developmental biology, functional morphology, and skeletal identification, with a special focus on the latter skill as it relates to forensics and archaeological studies. Students will also be introduced to new 3D imaging techniques for studying the skeleton.

This class requires both intensive in-class and out-of-class preparation. Participants must be prepared to handle actual human osteological specimens and have a professional approach to this subject and the human remains. An interest in human skeletal identification is especially applicable to the fields of archeology, physical anthropology, health sciences, law, and law enforcement.

GRADING REQUIREMENTS

- Laboratory quizzes (there is no final exam): 60%
- Term project: 25%
- Class and Lab Participation (attendance counts!): 15%
- Grades (rounding to whole number, with + and -):

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	<60%

TEXTBOOKS AND ELECTRONIC MEDIA

- Steele and Bramblett, 1988. *The Anatomy and Biology of the Human Skeleton*. Texas A&M University Press, College Station, TX. (Note: the vocabulary of this text is used.)
- Bass, 1995. *Human Osteology*. Special Publication No. 2, Missouri Archaeological Society, Columbia, MO.
- Buikstra and Uberlaker, 1994. *Standards for Data Collection from Human Skeletal Remains.*
- See www.eSkeletons.org for a web-based version of the human and primate skeleton.
- Almost launched: www.eForensics.info

Topic Schedule

Aug. 27	Brief introduction to the course

Students must schedule a 10-minute office hour appointment with Prof. K on 1 or 8 September.

Sept. 1	Bone biology, and introduction to the study materials
Sept. 3	The Skull
Sept. 8	The Skull (cont.)
Sept. 10	***QUIZ:*** **The Skull** The Vertebra
Sept. 15	The Vertebra (cont.)
Sept. 17	***QUIZ:*** **The Vertebra** The Chest
Sept. 22	The Chest (cont.)
Sept. 24	***QUIZ:*** **The Chest** The Arm
Sept. 29	The Arm (cont.)
Oct. 1	***QUIZ:*** **The Arm** The Hand
Oct. 6	The Hand (cont.)
Oct. 8	***QUIZ:*** **The Hand** The Pelvis
Oct. 13	The Pelvis (cont.)
Oct. 15	***QUIZ:*** **The Pelvis** The Leg
Oct. 20	The Leg (cont.)
Oct. 22	***QUIZ:*** **The Leg** The Foot
Oct. 27	The Foot (cont.)
Oct. 29	***QUIZ:*** **The Foot** The Dentition
Nov. 3	The Dentition (cont.)
Nov. 5	***QUIZ:*** **The Dentition**

	Applications: 3D imaging
Nov. 10	Applications: estimation of sex and age
Nov. 12	Applications: estimation of stature
Nov. 17	Term project
Nov. 19	Term project (cont.)
Nov. 24	Term project (cont.)
Nov. 26-28	***Thanksgiving Holidays (no class meetings)***
Dec. 1	Term project (cont.)
Dec. 3	Term project (cont.)

IMPORTANT DATES AND DEADLINES TO REMEMBER:

31 August:	Last day of official add/drop period
11 September:	Twelfth Class Day
23 September:	Last day to DROP course without possible academic penalty
21 October:	Last day to withdraw or change pass/fail status
26-28 November	*Thanksgiving holidays*
4 December:	Last day of class