

ANT 4525/4166 – Human Osteology

Spring 2012 / Instructor: Allysha Winburn, MA

Meeting Time: MWF Period 4 (10:40-11:30)

Classroom: Turlington Hall, 1208J (Osteology Laboratory)

Office: Turlington Hall, TBD

Office Hours: (held in 1208J)

Allysha Winburn (Instructor)

aip231@ufl.edu

Mondays 11:30AM-2:30PM

Chin-hsin Liu (Instructor)

inuit924@ufl.edu

Wednesdays 11:30AM-2:30PM

Kristina Ballard (TA)

kballard@ufl.edu

Thursdays 2:00PM-5:00PM

(Please note: when e-mailing, include “ANT 4525” at the beginning of the subject line)

COURSE DESCRIPTION

This course provides an introduction to the concepts and methods used in the analysis of human skeletal remains from forensic and archaeological contexts. The skills gained in this course will provide a basis for more advanced studies in forensic anthropology, bioarchaeology, paleopathology, and paleoanthropology. Through class lectures and independent lab time, students will learn: 1) how to identify whole and fragmentary skeletal elements, 2) how to determine human from non-human skeletal remains, and 3) how to estimate the age, sex, stature and ancestry of an individual.

Being successful in this course usually requires between 20 and 30 hours per week of independent laboratory study time to prepare for the lab practical quizzes. Your performance on quizzes will reflect the amount of time you put into independent study. Please evaluate your schedule to decide if you can fully commit to this class.

TEXTS

Required:

The Human Bone Manual. By: Tim D. White & Pieter Arend Folkens (2005) Academic Press.
Alternative edition: *Human Osteology*. By: Tim White (1991) Academic Press.

Suggested:

Human Osteology: A Laboratory and Field Manual. By: William Bass (1987). Special publication No. 2 of the Missouri Archaeological Society, Inc.

Additional materials (handouts, readings, *etc.*) may be provided by the instructor throughout the semester, and will be posted on the course’s Sakai site.

COURSE REQUIREMENTS

There will be nine (9) cumulative practical quizzes (100 points each) and one (1) large final exam (200 points). The quizzes and exams will involve the identification of anatomical features and fragmentary skeletal remains, in addition to more detailed short-answer questions. The format of the quizzes will be explained during the first class meeting. Quizzes may not be retaken, but ***your lowest quiz score can be dropped at the end of the semester***. The final exam grade, however, may **not** be dropped.

GRADING

Point totals will be calculated by adding up the raw scores of all quizzes (800 points: 900 minus the 100 from the lowest quiz score) and the final exam (200 points), for a total of 1000 points.

The following grading scale will be used:

A	93% - 100%	C	73% - 76%
A -	90% - 92%	C -	70% - 72%
B+	87% - 89%	D+	67% - 69%
B	83% - 86%	D	63% - 66%
B -	80% - 82%	D -	60% - 62%
C+	77% - 79%	E	59% or less

OTHER POLICIES

Cell phones, pagers and all other mobile devices (e.g., MP3 players, PSP's) must be turned off during class. The use of recording devices is prohibited except with prior permission of the instructor. Plagiarism or cheating in any form is subject to university policy as outlined by the Dean of Students (<http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>).

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.

Quizzes and tests missed due to documented illness can be rescheduled; however, prior notice must be given to the instructor, and documentation from a healthcare provider must be supplied.

ADDITIONAL RESOURCES

Throughout the semester, you may also be interested in consulting some of these references:

- www.eskeletons.org (good online study guide for human osteology & comparative anatomy)
- http://www.meddean.luc.edu/lumen/meded/grossanatomy/learnem/bones/main_bone.htm
- Larsen, Clark Spender (1997). *Bioarchaeology: Interpreting Behavior from the Human Skeleton*. Cambridge, MA: Cambridge University Press.
- Katzenberg, M. Anne and Shelley R. Saunders (Eds.) (2000). *Biological Anthropology of the Human Skeleton*. New York: John Wiley and Sons.
- Baker, Brenda J., Tosha L. Dupras, and Matthew W. Tocheri (2005). *The Osteology of Infants and Children*. College Station, TX: Texas A&M University Press.
- Donald J. Ortner (1981). *Identification of pathological conditions in human skeletal remains*. Washington: Smithsonian Institution Press.

RULES FOR THE FORENSIC RESEARCH & TRAINING LAB (1208J Turlington)

The room is to remain secure at all times. If you leave, even for a few minutes, **be sure the door is closed and locked**. Access to the classroom and lab is controlled by a keypad entry lock; students in this course will be granted access via their UFID number (first 6 digits, then push the star button). Students not enrolled in this course will not be permitted to enter.

- Permission for visitors to the laboratory must be received from the instructor, or another Anthropology faculty member. **NO EXCEPTIONS!**
- No specimens are to leave 1208J Turlington Hall.
- **NO EATING OR DRINKING IN THE LAB.**
- The teaching laboratory is not a social center. Please be respectful of other students' study time.
- Osteology students are restricted to specimens in the plastic boxes on the back wall of the room, and to any additional materials provided by the instructor.
- Above all, please remember that the skeletal remains, laboratory equipment, and other teaching materials are to be treated with the utmost respect.

Any transgressions of these rules will lead to point loss and/or dismissal from the course.

Spring 2012: Osteology Course Outline and Lecture Schedule

*** Note: The assigned readings are from White and Folkens (2005) *The Human Bone Manual*. Please note that exact dates for lecture topics are subject to change due to potential availability of guest speakers. However, no substantial changes will be made to quiz and exam dates.***

DAY	DATE	LECTURE TOPIC	REQUIRED READING
M	Jan 9	Course outline and expectations	Ch. 3
W	Jan 11	Bone biology & development	Ch. 4
F	Jan 13	Anatomical terms, joints, and muscles	Ch. 6
M	Jan 16	NO CLASS: MLK DAY	
W	Jan 18	Bones of the skull	Ch. 7
F	Jan 20	Bones of the skull (cont.)	Ch. 7
M	Jan 23	Skull – foramina and soft tissue	In class handouts
W	Jan 25	Dentition	Ch. 8
F	Jan 27	QUIZ #1	
M	Jan 30	Dentition (cont.)	Ch. 8
W	Feb 1	Human vs. Non-human remains	In class handouts
F	Feb 3	QUIZ #2	
M	Feb 6	Vertebral column	Ch. 9; Ch. 14 (241-245)

DAY	DATE	LECTURE TOPIC	REQUIRED READING
W	Feb 8	Vertebral column (cont.)	Ch. 9; Ch. 14 (241-245)
F	Feb 10	QUIZ #3	
M	Feb 13	Ribs and sternum	Ch. 10
W	Feb 15	Clavicle and scapula	Ch. 11
F	Feb 17	Upper limb – humerus, radius, ulna	Ch. 12
M	Feb 20	Upper limb – humerus, radius, ulna (cont.)	Ch. 12
W	Feb 22	Open Lab	
F	Feb 24	Open Lab	
M	Feb 27	QUIZ #4	
W	Feb 29	Hand – carpals, metacarpals, phalanges	Ch. 13
F	Mar 2	Hand – carpals, metacarpals, phalanges (cont.)	Ch. 13
M	Mar 3	NO CLASS: SPRING BREAK	NA
W	Mar 7	NO CLASS: SPRING BREAK	NA
F	Mar 9	NO CLASS: SPRING BREAK	NA
M	Mar 12	Os Coxae	Ch. 14 (246-253)
W	Mar 14	Os Coxae (cont.)	Ch. 14 (246-253)
F	Mar 16	QUIZ #5	
M	Mar 19	Lower limb – femur, tibia, fibula, patella	Ch. 15
W	Mar 21	Lower limb – femur, tibia, fibula, patella (cont.)	Ch. 15
F	Mar 23	QUIZ #6	
M	Mar 26	Foot – tarsals, metatarsals, phalanges	Ch. 16
W	Mar 28	Foot – tarsals, metatarsals, phalanges (cont.)	Ch. 16
F	Mar 30	QUIZ #7	
M	Apr 2	Biological Profile: Pelvis – sex and age	Ch. 19
W	Apr 4	Biological Profile: Skull –sex, age, and ancestry	Ch. 19
F	Apr 6	QUIZ #8	
M	Apr 9	Biological Profile: Estimating stature	Ch. 19
W	Apr 11	Trauma	Ch. 17
F	Apr 13	QUIZ #9	
M	Apr 16	Paleopathology- Skeletal	Ch. 17
W	Apr 18	Paleopathology- Dental	Ch. 17
F	Apr 20	Taphonomy	
M	Apr 23	Open Lab	
W	Apr 25	CUMULATIVE FINAL PRACTICAL EXAM	