



# ANT 4525 – Human Osteology



**Section 4166 Instructor:** David Daegling

**Meeting Time:** MWF (Period 4)

**Classroom:** Turlington Hall, 1208J (Osteology Laboratory)

**Office Hours:** M 4:00-5:00 (TUR1208J); F 1:00-3:00 PM (TUR B376)

**E-mail:** [daegling@ufl.edu](mailto:daegling@ufl.edu) (include “ANT 4525” in the subject line)

## COURSE DESCRIPTION

This course introduces 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 lab study 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.

**Success in this course usually requires around 20 hours per week of independent laboratory study to prepare for the lab practical quizzes. In general, students’ performance on quizzes will reflect the amount of time they put into independent study. Please evaluate your schedule to decide if you can fully commit to this class.**

## TEXTS

### Required:

White, Tim D. and Pieter A. Folkens (2005) *The Human Bone Manual*. Academic Press.

### Recommended:

Bass, William (1995 or 2005) *Human Osteology: A Laboratory and Field Manual*. Special publication No. 2 of the Missouri Archaeological Society, Inc.

Buikstra, Jane E. and Douglas Ubelaker (1994) *Standards for Data Collection from Human Skeletal Remains*. Arkansas Archeological Survey.

White, Tim D., Michael T. Black, Pieter A. Folkens (2011) *Human Osteology*. Academic Press.

Additional materials (e.g., handouts) will be posted online (<https://lss.at.ufl.edu/>). The course website contains all pertinent course information, including the syllabus, handouts, and grades.

## COURSE REQUIREMENTS

There will be thirteen (13) cumulative practical quizzes (100 points each; lowest score dropped), one (1) written assignment (100 points), and one (1) cumulative final exam (200 points), for a total of 1500 points possible.

## Quizzes and Final Exam

The quizzes and final exam 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 the **lowest quiz score will be dropped at the end of the term.** The final exam grade, however, may **not** be dropped.

## Written Assignment

One (1) comparative review of two (2) relevant journal articles will be completed during the semester (see due date in *Course Outline and Lecture Schedule*, below). The journal articles will be chosen from major publications in biological anthropology or a related field (*e.g.*, *American Journal of Physical Anthropology*, *Journal of Forensic Sciences*) and topically related to human osteology. If you are uncertain whether the journal you have chosen is appropriate for the course, please consult with the instructor. Two articles will be chosen for the review, which will be between 4-6 pages in length (double-spaced, 12-point Times New Roman font) and will include proper citation information for the articles being reviewed. Copies of the articles being reviewed will be submitted with the hard copy of the review in class on the due date. The review should include a summary of each article's main points, a discussion of the relevance of the articles to this course, a comparison between the two articles, and a critique of the research. Detailed requirements for the written assignment will be provided as the due date approaches.

## GRADING

The raw scores of all quizzes (minus the lowest quiz score) will be added to the raw scores of the written assignment and final exam, and divided by the total points possible (1500 points: 1200 quiz points [1300 minus the 100 from the lowest quiz score], plus 100 written assignment points, plus 200 final exam points). **No extra credit will be given.**

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

Grades ending with a decimal of .5 or greater will be rounded up to the next integer.

## OTHER POLICIES

**Cell phones, iPods, and all other mobile devices must be turned off during class.** The use of recording devices is prohibited except with prior instructor permission.

Students are expected to attend all lectures with all assigned readings completed. **No lecture notes or PowerPoint slides will be distributed.** If a student misses a class, it is **the student's responsibility** to get the notes from a classmate.

Academic dishonesty in any form will not be tolerated and is subject to university policy (University of Florida Rules - 6C1-4 Student Affairs). UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any concerns, please consult with the instructor.

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Students experiencing personal problems that are interfering with their academic performance are encouraged to contact the University Counseling Center at 301 Peabody Hall, 392-1575. <http://www.counseling.ufl.edu/cwc/Default.aspx>).

Quizzes and tests missed due to excused absences (e.g., academic conference attendance, archaeology course field trip) can be rescheduled; however, **72 hours prior notice** must be given to the instructor, and documentation must be supplied. In the case of unexpected illness or emergency, the instructor must still be notified prior to the absence, and documentation must be provided **within 72 hours**.

### **ADDITIONAL RESOURCES**

- [www.eskeletons.org](http://www.eskeletons.org) (good online study guide for human osteology and comparative anatomy)
- [http://www.meddean.luc.edu/lumen/meded/grossanatomy/learnem/bones/main\\_bone.htm](http://www.meddean.luc.edu/lumen/meded/grossanatomy/learnem/bones/main_bone.htm)
- Larsen, Clark Spencer (1997) *Bioarchaeology: Interpreting Behavior from the Human Skeleton*. Cambridge, MA: Cambridge University Press.
- Ortner, Donald J. (1981) *Identification of pathological conditions in human skeletal remains*. Washington: Smithsonian Institution Press.

**The following rules constitute a contract between student and instructor. Your signature below represents your commitment to upholding this contract, and your understanding that transgression of these rules will lead to point loss and/or dismissal from the course.**

**Please print, read, and sign this page. Turn it in to the instructor by the date noted on the schedule. Failure to turn in a signed form will result in loss of Osteology Lab privileges.**

### **RULES FOR THE OSTEOLGY LABORATORY (1208J Turlington Hall)**

- The room is to remain secure at all times. Access is controlled by a keypad entry lock; students in this course will be granted access (first 6 digits of UF ID, then push the star button). Lock the room if you are the last to leave – even if you leave only briefly. **If the room is found unlocked, the last student to use the keypad will be penalized.**
- No visitors are allowed in the laboratory. Lab access is the exclusive privilege of registered Human Osteology students, anthropology graduate students, and faculty.
- No specimens are to leave 1208J Turlington Hall (Osteology Laboratory).
- Food and drink are prohibited in the Osteology Laboratory.
- Photography of course materials or skeletal remains is prohibited.
- The teaching laboratory is not a social center. Be respectful of other students' study time.
- Be respectful of all Anthropology department staff and other Turlington Hall staff.
- 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.***

**I \_\_\_\_\_ (print name) certify that I have read the above rules and understand that failure to comply will lead to point loss and/or dismissal from the course.**

**Signed: \_\_\_\_\_ UFID: \_\_\_\_\_**

**Date: \_\_\_\_\_**



## Spring 2015: Osteology Course Outline and Lecture Schedule



Day	Date	Lecture Topic	Assignment ( <i>The Human Bone Manual</i> unless otherwise stated)
W	7 Jan	Course outline and expectations <b>Drop/Add</b>	Ch. 1; Ch. 3
F	9 Jan	Bone biology and development <b>Drop/Add</b>	Ch. 4 ( <b>signed form due</b> )
M	12 Jan	Anatomical terms, joints, and muscles	Ch. 6
W	14 Jan	Bones of the skull	Ch. 7
F	16 Jan	<b>QUIZ #1</b>	
M	19 Jan	<b>NO CLASS: MLK DAY</b>	
W	21 Jan	Bones of the skull (cont.)	Ch. 7
F	23 Jan	<b>QUIZ #2</b>	
M	26 Jan	Skull – foramina and nerves; craniometrics	Online handouts
W	28 Jan	Human vs. Non-human remains	Online handouts
F	30 Jan	<b>QUIZ #3</b>	
M	2 Feb	Vertebral column	Ch. 9; Ch. 14 (241-245)
W	4 Feb	Vertebral column (cont.)	Ch. 9; Ch. 14 (241-245)
F	6 Feb	<b>QUIZ #4</b>	
M	9 Feb	Ribs and sternum	Ch. 10
W	11 Feb	Clavicle and scapula	Ch. 11
F	13 Feb	<b>QUIZ #5</b>	
M	16 Feb	Upper limb – humerus, radius, ulna	Ch. 12; online handouts
W	18 Feb	Upper limb – humerus, radius, ulna (cont.)	Ch. 12; online handouts
F	20 Feb	<b>QUIZ #6</b>	
M	23 Feb	Hand – carpals, metacarpals, phalanges	Ch. 13
W	25 Feb	Hand – carpals, metacarpals, phalanges (cont.)	Ch. 13
F	27 Feb	<b>QUIZ #7</b>	
M	2 Mar	Os Coxae	Ch. 14 (246-253)
W	4 Mar	Lower limb – femur, tibia, fibula, patella	Ch. 15; online handouts
F	6 Mar	<b>QUIZ #8</b>	
M	9 Mar	Lower limb – femur, tibia, fibula, patella (cont.)	Ch. 15; online handouts
W	11 Mar	Foot – tarsals, metatarsals, phalanges	Ch. 16
F	13 Mar	<b>QUIZ #9</b>	
M	16 Mar	<b>NO CLASS: SPRING BREAK</b>	
W	18 Mar	<b>NO CLASS: SPRING BREAK</b>	
F	20 Mar	<b>NO CLASS: SPRING BREAK</b>	
M	23 Mar	Biological Profile: Sex	Ch. 19
W	25 Mar	Biological Profile: Ancestry	Ch. 19
F	27 Mar	<b>QUIZ #10</b>	
M	30 Mar	Biological Profile: Age	Ch. 19
W	1 Apr	Biological Profile: Stature	Ch. 19
F	3 Apr	<b>Quiz #11</b>	
M	6 Apr	Trauma	Online handouts

<b>Day</b>	<b>Date</b>	<b>Lecture Topic</b>	<b>Assignment</b> <i>(The Human Bone Manual unless otherwise stated)</i>
W	8 Apr	Taphonomy	Ch. 5
F	10 Apr	<b>Quiz #12</b>	
M	13 Apr	Paleopathology	Ch. 17
W	15 Apr	Archaeological Recovery of Human Remains	Ch. 2
F	17 Apr	<b>Quiz #13</b>	
M	20 Apr	Issues in Forensic and Physical Anthropology	Online handouts
W	22 Apr	Open Lab – Review	<b>Written Assignment Due</b>
Th	29 Apr	<b>CUMULATIVE FINAL EXAM: Group 29D</b>	<b>3:00-4:00 pm (Osteo Lab)</b>

\*\*\* Note: 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.\*\*\*