

Fall 2012 ANT 4525 Section (0798) Human Osteology

Instructor: Gypsy Price (gypsyprice@ufl.edu)

Class periods: MWF Period 4 (10:40-11:30AM)
Classroom and laboratory: 1208J Turlington Hall

Office hours: Wednesday, 11:30am - 1:30pm
Grader: Sarah Kiley

COURSE DESCRIPTION

This course introduces the concepts and methods used in the analysis of human skeletal remains from archaeological and forensic contexts. The understanding of the human skeletal system and skills gained in this course will provide a basis for advanced studies in bioarchaeology, forensic anthropology, medicine, dentistry, paleopathology, and paleoanthropology. Although introductory in nature, this course is highly practical and requires intensive laboratory study time. Through class lectures (three hours per week) and independent laboratory study time, students are expected to gain skills related to: 1) identifying whole and fragmentary human skeletal elements, 2) distinguishing human from non-human skeletal remains, 3) determining age, sex, stature and ancestry of an individual, 4) recognizing basic skeletal/dental trauma and pathology, and 5) reconstructing biological life history of an individual based on skeletal remains. Being successful in this course usually requires 10 to 20 hours per week of independent laboratory study time to prepare for the lab practical quizzes and exam. 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 and budget your time accordingly.

TEXTS

Required*

The Human Bone Manual. By: Tim D. White & Pieter A. Folkens (2005) Academic Press.

Alternative Texts

Human Osteology. By: Tim White (Second or Third Addition) Academic Press.

Recommended

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

*The instructor reserves the rights to post additional readings and handouts on E-Learning/Sakai (<http://lss.at.ufl.edu>).

COURSE REQUIREMENTS AND ASSESSMENTS

You are expected to complete the reading assignments for each class period listed below (on course schedule) before coming to class. There will be a laboratory copy of text books and materials available for reference purposes. These items must not be removed from the laboratory. However, you are required to bring your own textbooks during independent study time.

There will be six (6) cumulative practicals and one (1) final presentation required for this course. The practicals will include questions regarding identification of anatomical features and fragmentary skeletal/dental remains as well as conceptual short answer questions. For the final student presentations, students will be grouped according to topic of interest. The format of the practicals and presentations will be explained in detail during the first class. All grades will be posted to E-learning/Sakai course page. Grades cannot be communicated via email or phone.

The extra credit opportunity for this semester is a two to three (2-3) page paper in which you propose a practical modification to the human skeleton. You must identify and explain a problem with the current human skeleton, propose a modification, and explain how it will solve said problem. In doing so you must be sure to make accommodations for the rearrangement of major ligaments and soft tissues as well as hard tissues. This paper will be due on the 30th of November. No late submission will be accepted. This paper will be worth five (5) points (or a little over 3 percentage points).

GRADING

Point totals will be calculated by adding the raw scores of all quizzes (20 points each) and final student presentations (40 points) for a total of 160 points. **No curve or any forms of grade adjustment** (aside from the previously described extra credit assignment) **will be used.**

Practicals (20 points each)	120 points
Final Presentations	40 points
<u>(Extra Credit)</u>	<u>(5 points)</u>
Total	160 points

The grading scale is as follows:

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

GENERAL CLASSROOM POLICIES

- **SILENCE OR TURN OFF CELL PHONES. Absolutely NO text messaging.**
- Laptops, tablets, and all portable electronic devices are not permitted during lectures.
- The instructor and TAs will **NOT** distribute lecture notes/copies of the Power Points of in-class presentation under any circumstance.
- The lectures and practical/exam questions may not be recorded in any form.
- Cheating or plagiarism in any form is subject to university policy as outlined by the Dean

of Students (<http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>). It is your responsibility to fully comprehend the extent and consequences of violating these policies.

- Only missed practicals due to serious illness, family emergency, military duty, or official UF business may be accommodated. Documentation is required for excused absences.
- 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. Students should be proactive in obtaining the documentation and complete the registration process with the Dean of Students Office within two weeks after class starts.

THE FORENSIC RESEARCH & TRAINING LAB (1208J Turlington) Rules

- Studying human skeletal remains is a rare privilege. All skeletal remains, laboratory equipment and other teaching materials are to be treated with the utmost respect. **Repetitive offenses may result in dismissal from the classroom and point deduction.**
- 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 lab is controlled by a key-pad 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 are not permitted to enter the lab.
- **No food or drinks** are allowed in the laboratory (either during lectures or study hours). Water bottles with caps are permitted but should be stored away from the main tables and specimens. This will be strictly enforced and may result in removal from the laboratory.
- Permission for visitors to the laboratory must be received from the instructor or other Anthropology faculty member(s). **NO EXCEPTIONS!**
- Students are restricted to specimens in the plastic boxes on the back wall of the room and to any additional materials specifically provided by the instructor.
- The teaching laboratory is not a social center. Please be respectful of other students' study time and personal space.
- Since you will have access to the laboratory beyond regular UF business hours, it is important to ensure your own safety and proper personal behavior is expected. In case of emergency, UFPD can be reached at 392-1111, or 911. Use Student Nighttime Auxiliary Patrol (SNAP, 392-7627) when necessary if you stay until late. If you feel you are being harassed or concerned with specific behavioral issues, report immediately to the instructor or the TAs.
- **Absolutely no** specimens are to leave 1208J Turlington Hall. This also includes images of the specimens. Taking pictures of the bone fragments for study purpose, social media, or personal collection is strictly prohibited. In fact, studying photographed images of the laboratory specimens (especially fragments) constitutes cheating. Remember, it is a serious ethical violation to post pictures of human remains anywhere (yes, even facebook; **DON'T DO IT**).

Any transgressions of these rules will lead to expulsion from the laboratory, point loss, removal of access rights, and/or dismissal from the course.

ADDITIONAL RESOURCES

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

- 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 (test yourself!)
- 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.

COURSE SCHEDULE

The assigned readings are from White and Folkens (2005) *The Human Bone Manual*. If you plan to use the alternative editions (White, 1991 or 2012), study its table of contents and read accordingly, or contact the instructor at the beginning of the semester. Please note the exact dates for lecture topics are subject to change due to availability of potential guest speakers or unforeseen changes. However, no substantial changes will be made to practical presentation dates.

Week	Day	Topic	Readings
1 (8.22-24)	W	Course outline and objectives/syllabus review	Syllabus
	F	Bone biology and development	Ch. 4
2 (8.27-31)	M	Anatomical terminology (bones, joints, and muscles)	Ch. 6
	W	Bones of the skull	Ch. 7
	F	Bones of the skull (cont.)	Ch. 7
3 (9.3-7)	M	NO CLASS – LABOR DAY	
	W	Skull – foramina, nerves, and soft tissue	Handouts
	F	Skull - Osteometrics	Handouts
4 (9.10-14)	M	Skull – Non-metric characters of sex, age, and race	Ch. 7
	W	Dentition	Ch. 8; Ch. 19 (364-369)
	F	PRACTICAL 1	
5 (9.17-21)	M	Hyoid and Vertebral Column	Ch. 9

	W	Pelvic Girdle – Presentation sign up	Ch. 14 (241-253)
	F	Pelvic Girdle – Age, sex, locomotion, birth	Ch. 14 (246-253); Ch. 19 (374-383, 387-398)
6 (9.24-28)	M	PRACTICAL 2	
	W	Thoracic Cage – ribs and sternum	Ch. 10
	F	Clavicle and Scapula	Ch. 11
7 (10.1-5)	M	PRACTICAL 3	
	W	Individual meetings with instructors; Free lab time	
	F	Upper Limb – humerus, ulna, radius	Ch. 12
8 (10.8-12)	M	Hand – carpals, metacarpals, and phalanges	Ch. 13
	W	Hand – carpals, metacarpals, and phalanges (cont.)	Ch. 13
	F	PRACTICAL 4	
9 (10.15-19)	M	Lower limb – femur, tibia, fibula, and patella	Ch. 15
	W	Foot – tarsals, metatarsals, and phalanges	Ch. 16
	F	Foot – tarsals, metatarsals, and phalanges	Ch. 16
10 (10.22-26)	M	PRACTICAL 5	
	W	Determining stature and age from long bones	
	F	Lab Day	
11 (10.29-11.2)	M	PRACTICAL 6	
	W	Play - “Who Wants to be an Osteologist?” for fabulous prizes!	
	F	Trauma	Ch. 17
12 (11.5-9)	M	Trauma (cont.)	Ch. 17
	W	Taphonomy	
	F	NO CLASS – HOME COMING	
13 (11.12-16)	M	NO CLASS – VETERANS DAY	
	W	Paleopathology - skeletal	Ch. 17
	F	Paleopathology - dental	Ch. 17
14 (11.19-23)	M	Forensic and Morphometric Applications	Assigned Readings
	W	NO CLASS – THANKSGIVING BREAK	
	F	NO CLASS – THANKSGIVING BREAK	
15 (11.26-30)	M	Bioarchaeological and Paleopathological Applications	Assigned Readings
	W	STUDENT PRESENTATIONS	
	F	STUDENT PRESENTATIONS	
16 (12.3-5)	M	STUDENT PRESENTATIONS	
	W	STUDENT PRESENTATIONS	

Academic Honesty

Unless it is specifically connected to assigned collaborative work, all work should be individual. Evidence of collusion (working with someone not connected to the class or assignment), plagiarism (use of someone else's published or unpublished words or design without acknowledgment) or multiple submissions (submitting the same work for different courses) will lead to the Department's and the University's procedures for dealing with academic dishonesty. All students are expected to honor their commitment to the [University's Honor Code](#) and the student conduct code. If you are unsure whether your activities are legitimate regarding paper writing and exam taking, please do not hesitate to ask me.

Accommodation for Students with Disabilities

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. **Please make any requests by the second week of class.**

UF Counseling Services

Resources are available on-campus for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

1. [University Counseling and Wellness Center](#), 3190 Radio Road, 392-1575, personal and career counseling
2. [Sexual Assault Recovery Services \(SARS\)](#), Student Health Care Center, 392-1161, sexual counseling
3. [Career Resource Center](#), Reitz Union, 392-1601, career development assistance and counseling
4. [Reading & Writing Center](#), Broward Hall, 392-0791, writing assistance, study skills, test preparation