ANT 4525/ANG 5525 Human Osteology and Osteometry Spring 2013

Sections 13G8 Instructor: Email: Office:	3, 2452 David Daegling daegling@ufl.edu TUR B376	Class Times: MWF 3 Location: Turlington 1208J Office Hours: M 4:00 – 5:30; F 1:00 – 3:00
TA: TA Email:	Caroline Dimmer cdimmer@ufl.edu	TA Office Hours: T 2:00-4:00, R 3:00-5:00
Section 4166 Instructor: Email: Office:	Ms. Carrie A. Brown, MA cbrown311@ufl.edu TBD	Class Times: MWF 4 Location: Turlington 1208J Office Hours: W 3:00 – 6:00
TA: TA Email:	Caroline Dimmer cdimmer@ufl.edu	TA Office Hours: T 2:00-4:00, R 3:00-5:00

Course Objectives:

This course provides an intensive and comprehensive introduction to the human skeleton, emphasizing the identification of complete and fragmentary skeletal remains from forensic and archaeological contexts. This knowledge forms the foundation for advanced study in forensic anthropology, paleoanthropology, bioarchaeology, paleopathology, and human osteology. By the end of the course, you are expected to have mastered the identification of all elements of the human skeleton (including fragmentary remains), be familiar with osteological techniques (osteometry, sex and ancestry assessment, age and stature estimation), and understand trauma, pathology, and taphonomy and their indicators in the skeleton. The first half of the course will focus on identification of skeletal elements, and the second half will emphasize applied concepts best learned once you have become more familiar with the human skeleton.

Course Workload:

This course requires a significant time commitment outside lecture periods. Successful students invest between 20-30 hours per week of independent laboratory study time. You are encouraged to compile an osteology notebook that contains class notes, handouts, and drawings, as this is an effective means to assimilate the large volume of information you will be responsible for understanding. This notebook is not graded.

Course Materials:

Required:	White TD (2005)	The Human Bone Manual.	San Diego:	Academic
	Press, Inc.			

Additional required readings, handouts, and other course content will be posted in e-Learning. Announcements will be given in class when this material will be needed.

Recommended:	Bass W (2005) <i>Human Osteology: A Laboratory and Field Manual</i> . 5 th Edition. Special publication No. 2 of the Missouri Archaeological Society, Inc.
	Moore-Jansen et al. (1994) <i>Data Collection Procedures for Forensic Skeletal Material</i> . Report of Investigations 48, University of Tennessee, Anthropology Department, Knoxville, TN.
	Buikstra and Ubelaker (1994) Standards for Data Collection from Human Skeletal Remains. Arkansas Archeological Report Research Series.

Course Policies:

Attendance:

You are expected to attend class at all scheduled lecture times with all assigned readings completed *before* each lecture in order to facilitate discussion. If an additional reading applies to a class topic, it is advisable to bring a copy to lecture. Under no circumstances will any lectures be distributed by the instructor (either directly or via e-learning) outside of class. If you are unable to attend class, you need to get the information covered that day from another student.

Grading:

There will be eleven (11) lab practical quizzes (60 points each), one (1) cumulative practical exam (300 points), and two (2) journal article reviews (50 points each). There will be no make-up quizzes or exams; however, *the lowest quiz grade will be dropped*. Journal article reviews must be turned in on time and in class (hard copy); no late assignments will be accepted.

Final grades will be calculated as a percentage of the total available points (1000) and graded using the following scale:

Grade	%	Grade	%
Α	93-100	С	73-76
А-	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	Ε	<u>< 59</u>

<u>Note</u>: After summing all unrounded scores, final grades that include any fraction of a point will be rounded up to the next whole percentage point (*e.g.*, a 92.1 \rightarrow 93; 89.7 \rightarrow 90; but 90.0 \rightarrow 90). No other adjustments are made.

Information on current UF grading policies for assigning grade points can be found here: <u>https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</u>

Plagiarism and cheating in any form are subject to university policy as outlined by the Dean of Students (<u>http://www.dso.ufl.edu/sccr/honorcodes/conductcode.php</u>) and will incur the severest allowable penalties.

Laboratory practical quizzes and exam:

The format for practicals will be discussed the first day of class. Quizzes consist of twenty (20) numbered stations with complete or fragmentary elements, skeletal features, or other concepts learned in class that will need to be accurately identified or applied. The practicals will be timed (one [1] minute per station). See Course Schedule for dates of the practicals (pages 4 and 5). Practical Exam involves more stations.

Journal article reviews:

Two (2) journal article reviews are to be completed during the semester (see due dates in in Course Schedule, pages 4 and 5). The journal articles chosen should be from major publications in biological anthropology or a related field (*e.g., The American Journal of Physical Anthropology, The 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. The reviews should be between 2-4 pages in length (double-spaced, 12-point Times New Roman font) and need to include proper citation information for the article being reviewed. A copy of the article should also be submitted with the hard copy of the review in class on the due date. The review should include a summary of the article's main points, a discussion of the relevance of the article to this course, and a critique of the research.

Extra Credit:

No extra credit opportunities will be provided.

Miscellaneous:

Cell phones, Ipods, MP3 players, and other mobile devices must be turned OFF during class time. Ask your instructor about the appropriateness and advisability of laptop use during lectures. Recording devices are prohibited, except with instructor permission.

Students requesting classroom accommodation should first register with the Dean of Students Office (<u>http://www.dso.ufl.edu/drc/</u>), who will then provide the necessary documentation for the course instructor. Please do this no later than two (2) weeks after the first day of class.

If you are experiencing personal problems that are interfering with your studies, you are encouraged to take advantage of the available university resources:

UF Counseling and Wellness Center: 3190 Radio Road, (352) 392-1575 Student Mental Health: Student Health Care Center, (352) 392-1171 Sexual Assault Recovery Services: Student Health Care Center, (352) 392-1161

Spring 2013 Course Schedule:

Date	Day	Торіс	Assignment
7 Jan	М	Welcome, syllabus, course format, rules	Syllabus, Chapter 1
9 Jan	W	Anatomical terms	Chapter 6, Handout(s)
		Types of bone, bone development	Chapter 4
11 Jan	F	Bone function and biomechanical principles	Chapter 4
			Turn in signed rules
14 Jan	Μ	The Skull: Bones	Chapter 7, Chapter 9
			(Hyoid)
16 Jan	W	The Skull: Features	Chapter 7
18 Jan	F	The Skull: Osteometry	Chapter 7, Chapter 18
			(Section 18.6)
			Handout(s)
21 Jan	Μ	NO CLASS	
23 Jan	W	Dentition	Chapter 8
25 Jan	F	Quiz #1	
28 Jan	Μ	The axial skeleton: Vertebrae	Chapter 9
30 Jan	W	The axial skeleton: Ribs and sternum	Chapter 10
1 Feb	F	Quiz #2	
4 Feb	Μ	The pectoral girdle: Clavicle and scapula	Chapter 11
6 Feb	W	The upper limb: Humerus, radius, ulna	Chapter 12
8 Feb	F	Quiz #3	
11 Feb	Μ	The wrist and hand	Chapter 13
13 Feb	W	The pelvic girdle: Innominates, sacrum, coccyx	Chapter 14
15 Feb	F	Quiz #4	
18 Feb	М	The lower limb: Femur, patella, tibia, fibula	Chapter 15
20 Feb	W	Open lab/guest lecture	Review chapters as needed
22 Esh	Б	Ouin #5	
22 Feb	Г	Quiz #5	
25 Feb	Μ	The ankle and foot	Chapter 16
27 Feb	W	Postcranium: Osteometry	Chapter 18 (Section 18.6)
			Handout(s)
			Journal Article Review #1
			Due
1 Mar	F	Quiz #6	

*** SPRING BREAK ***

11 Mar	Μ	Osteometry: Statistics, Reference populations,	Chapter 19 (Sections 19.1,
		FORDISC	19.2, 19.7)
13 Mar	W	Assessment of biological sex	Chapter 19 (Section 19.4)
			Phenice 1969
15 Mar	F	Quiz #7	

Date	Day	Торіс	Assignment
18 Mar	Μ	Age estimation	Chapter 19 (Section 19.3)
20 Mar	W	Assessment of ancestry	Chapter 19 (Sections 19.6.
			19.8, 19.9)
			Sauer 1992
			Hefner 2009
22 Mar	F	Quiz #8	
25 Mar	Μ	Stature estimation	Chapter 19 (Section 19.5)
			Ousley 1995
			Willey and Falsetti 1991
27 Mar	W	Review of the biological profile	Chapter 19 (All sections)
29 Mar	F	Quiz #9	
1 Apr	М	Trauma: Mechanisms of injury, antemortem	Chapter 17 (Section 17.1)
3 Apr	W	Trauma: BF vs SF, GSW	Byers 2008 Chapters 12-14
5 Apr	F	Quiz #10	
8 Apr	М	Pathology	Chapter 17 (Sections 17.2-
			17.8)
10 Apr	W	Taphonomy	Chapter 5
			Journal Article Review #2
			Due
12 Apr	F	Quiz #11	
15 Apr	М	Burned remains, cremains	Symes et al. 2008
17 Apr	W	Applied osteology, case studies	TBD
		Ethics	Chapter 3
19 Apr	F	Open lab	
22 Apr	Μ	Open lab	
24 Apr	W	FINAL PRACTICAL	

Read and sign a copy of the rules and turn in to the instructor by the end of week one. Failure to turn in a signed form will result in the loss of osteology laboratory access privileges.

Rules for the Osteology Laboratory (Turlington Hall 1208J)

- 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 key pad entry lock. Students not granted access *should not* be permitted to enter the room. LOCK THE ROOM IF YOU ARE THE LAST STUDENT TO LEAVE THE ROOM.
 IF THE ROOM IS FOUND UNLOCKED, THE STUDENT WITH THE LAST KEY PAD NUMBER USED TO ACCESS THE ROOM WILL BE PENALIZED.
- Permission for visitors to the laboratory must be granted by the course instructor or Carrie Brown (instructor for Period 4 Osteology section). No exceptions! Under no circumstances should students not enrolled in ANT 4525 be present in the laboratory.
- Certain Anthropology graduate students are permitted access to the laboratory for research purposes, and this is often time-sensitive. While they are advised to give osteology students priority for lab time, please be accommodating as lab availability is not always predictable.
- No access to the lab is permitted for 3 hours prior to practical quizzes/exam.
- Absolutely no specimens are to leave the laboratory.
- All skeletal materials and other materials are to be treated with the utmost respect.
- The laboratory is not a social center. Please be respectful of other students' study time.
- Food and drink are prohibited in the laboratory.

Transgression of any rules will lead to point loss or dismissal from the course.

Ι		<u>(print</u>	name) certify	that I
have read the above rules and understa	nd that failure to	comply will lea	d to point loss	and/or
dismissal from the course.				
Signed	U	F ID		

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