

## ANT 4525 Fall 2011

### Human Osteology & Osteometry

**Instructor:** Dr. Michael W. Warren (mwarren@ufl.edu) 273-8320

**Graduate Assistant:** Allysha Winburn

**Meeting Time:** Monday Wednesday Friday 3<sup>rd</sup> period

**Place:** Human Osteology Laboratory, Turlington Hall, Room 1208J

**Office Hours:** TBA

**Course Description** *Human skeletal identification for the physical anthropologist and archaeologist. Identification of human bone and bone fragments. Techniques for estimation of age at death, ancestry and sex from human skeletal remains. The measurement of human skeleton for comparative purposes.*

**Course Objective:** This course provides an intensive introduction to the human skeleton emphasizing the identification of complete and fragmentary skeletal remains. This knowledge forms the underpinning for advanced study in forensic anthropology, paleoanthropology, human osteology and medicine. The course will consist of three hours of lecture per week and independent student laboratory time. Successful students generally require 10 to 20 hours per week of independent laboratory study time. There will be a series of practical quizzes and written exams. Students are encouraged to compile an osteology notebook that contains class notes and drawings.

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

**Suggested text:** Bass, William (1987) Human Osteology: A laboratory and field manual. Special publication No. 2 of the Missouri Archaeological Society, Inc.

**Additional materials (in the form of handouts, etc) will be provided by the instructor.**

**Course requirements:** There will be 8 quizzes; 1 cumulative practical exam, and 2 written exams. The format for quizzes and test will be discussed the first day of class. In addition, each student is encouraged to prepare a course notebook. The notebook, comprised of class notes, handouts, and drawings will serve as a future field reference. No make-up exams will be given. Instead the lowest quiz score for each student will be dropped before computing the final grades for the course. Grades are computed using the raw score of quizzes 3-and midterms. Natural clusters of raw score totals are assigned grades.

**Other Policies:** Cell phones and pagers must be turned off during class. Attendance will not be taken for lectures but students are expected to attend and are responsible for all material covered in lectures. The instructor will **NOT** distribute lecture notes/copies of the PowerPoints outside of in-class presentation, nor will they be provided for unexcused absences. Plagiarism or cheating in any form is subject to university policy as outlined by the Dean of Students (<http://www.dso.ufl.edu/judicial/academichonestystudent.html>).

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 experiencing personal problems that are interfering with their academic performance are encouraged to contact the University Counseling Center (301 Peabody Hall, 392-1575), Student Mental Health (Student Health Care Center, 392-1171), or Sexual Assault Recovery Services (Student Health Care Center, 392-1161).

**Course Outline:** General topics to be covered this semester. **Note:** This syllabus is a guideline. I reserve the right to make minor modifications due to the availability of potential Guest Speakers or Subject Matter Experts not currently on the schedule. **No** substantive assignment changes of addition or subtraction will be made nor will scheduled

**August 24:** WELCOME! Syllabus; Class & Laboratory Rules; Notebook; Anatomical Terms.

**Reading assignment: Chapter 4**

**August 26:** Anatomical terms and orientation/planes; Types of bone and bone development.

**Reading assignment: Chapter 6**

**August 29:** The Skull – Bones.

**Reading assignment: Chapter 7**

**August 31:** The Skull – Foramina and Related Soft Tissue Structures.

**September 2:** The Skull – Osteometric Points.

**September 5: No Class; Labor Day!**

**September 7:** Non-metric characters of sex, ancestry and age from the skull

**September 9:** Measuring the skull; head shape and size; Fordisc 3

**Reading assignment: In Class Handout**

**September 12: QUIZ 1**

**September 14:** Metric analysis; Fordisc 3

**September 16:** Dentition. Review Mandible and Maxilla

**Reading assignment: Chapter 8**

**September 19:** Dentition II. Determination of age from the dentition; dental pathology

**Reading assignment: Chapter 8**

**September 21:** The Vertebral Column

**September 23:** The Vertebral Column (continued)

**Reading assignment : Chapter 9 + pg 241-245**

**September 26: QUIZ 2**

**September 28:** Os Coxae. Determining sex; locomotion and childbirth

**Reading assignment: pg 374-379**

**September 30:** Os Coxae. Determination of age.

**Reading assignment: Chapter 14**

**October 3: QUIZ 3**

**October 5:** The Thoracic Cage – Ribs & Sternum

**Reading assignment: Chapter 11**

**October 7: Catch up and review for Exam 1**

**October 10: QUIZ 4**

**October 12: Written EXAM 1**

**October 14:** Clavicle and Scapula

**Reading assignment: Chapter 10**

**October 17:** Humerus, Radius and Ulna.

**Reading assignment: Chapter 12**

**October 19:** Humerus, Radius and Ulna II – Musculature of the Arm

**October 21: QUIZ 5**

**October 24:** The Hand.

**Reading assignment: Chapter 13**

**October 26:** The Fingers.

**Reading assignment: Chapter 13**

**October 28:** Femur, Tibia, Fibula and Patella.

**October 31:** Femur, Tibia, Fibula and Patella (continued)

**Reading assignment: Chapter 15**

**November 2: QUIZ 6**

**November 4: *No Class; Homecoming!***

**November 7:** Determining stature and age from the long bones

**November 9:** Musculature of the Leg

**November 11: *No Class; Veterans Day!***

**November 14: QUIZ 7**

**November 16:** The Foot

**Reading assignment: Chapter 16**

**November 18:** The Foot (Cont.)

**November 21:** Review of Appendicular Skeleton

**November 23:** The immature skeleton; age determination of fetuses and juveniles

**November 25: *No Class; Thanksgiving Break!***

**November 30 Wrap-up and review**

**December 2:** Supervised Independent Study Time

**December 5: QUIZ 8**

**December 7: Cumulative Final Practical**

**December 9: Written EXAM 2**

### **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 should not be permitted in the classroom. Graduate students with access to the laboratory can admit themselves to the lab. They will be advised to give osteology students priority for lab time unless you are instructed otherwise. **LOCK THE ROOM IF YOU ARE THE LAST STUDENT TO LEAVE THE ROOM. IF 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 received from Dr. Warren or Professor Zambrano. No exceptions!
- No specimens are to leave the laboratory.
- All skeletal and other materials are to be treated with the utmost respect.
- The laboratory is not a social center. Please be respectful of other student's study time.
- Osteology students are restricted to specimens in the boxes at the rear of the room.
- **Any transgressions of these rules will lead to point loss and/or dismissal from the course.**

**READ AND SIGN THIS COPY OF THE RULES AND TURN IN BY THE END OF WEEK ONE.  
NOT FOLLIWING THESE GUIDELINES CAN RESULT IN POINT LOSS OR/DISMISSAL FORM  
THE COURSE**

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Print

Name\_\_\_\_\_Signature\_\_\_\_\_