# ANT 5525 / 4525 Human Osteology & Osteometry – Fall 2012

Instructor: Michael Warren
Class Period: (MWF 3rd period; 9:35am to 10:25am)
Classroom: J-1205 Turlington
Office Hours: TBD
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*Human skeletal identification for the physical anthropologist and archaeologist. Identification of human bone and bone fragments. Techniques for estimation of age at death, ancestry, stature and sex from human skeletal remains. The measurement of human skeleton for comparative purposes.*

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

## Course Objectives

This course provides an intensive introduction to the human skeleton emphasizing the identification of complete and fragmentary skeletal remains. In the course of this class, we will cover bone biology, development and anatomy, and paleopathology. This knowledge forms the underpinning for advanced study in biological anthropology, forensic identification, 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 to prepare for the lab practical quizzes.

## Course requirements

There will be 8 quizzes and 1 cumulative final exam, to be given on the last day of class (December 5). The format for the quizzes and final exam will be discussed the first day of class. 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 and the final exam. This type of laboratory-based course does not lend itself to standard grading rubrics. Students compete for their grade with others in the course. Natural clusters of raw score totals are assigned grades based on the instructor's evaluation of the difficulty of the practical examinations and the overall performance of the class. Therefore, it is not expected that the final grades will represent a normal curve. This course is designed to be rigorous and challenging!

**August 22:** WELCOME! Syllabus; Class & Laboratory Rules; Notebook; Anatomical Terms. **Reading assignment: Chapter 4**
**August 24:** Anatomical terms and orientation/planes; Types of bone and bone development. **Reading assignment: Chapter 6**
**August 27:** The Skull – Bones. **Reading assignment: Chapter 7**
**August 29:** The Skull – Foramina and Related Soft Tissue Structures. **Reading assignment: Chapter 7**
**August 31:** The Skull – Osteometric Points. **Reading assignment: Chapter 7**
**September 3:** *No Class; Labor Day!*
**September 5:** Non-metric characters of sex, race and age from the skull
**September 7:** Measuring the skull; head shape and size; Fordisc 3.0
**September 10:** Metric analysis; Fordisc 3.0.
**September 12:** Dentition. Review Mandible and Maxilla. **Reading assignment: Chapter 8**
**September 14:** ***QUIZ 1***
**September 17:** Dentition II. Determination of age from the dentition; dental pathology. **Reading assignment: Chapter 8**
**September 19:** The Vertebral Column. **Reading assignment : Chapter 9 + pg 241-245**
**September 21:** ***QUIZ 2***
**September 24:** The Vertebral Column (continued). **Reading assignment : Chapter 9 + pg 241-245**
**September 26:** Os Coxae. Determining sex; locomotion and childbirth. **Reading assignment: Chapter 14**
**September 28:** ***QUIZ 3***
**October 1:** Os Coxae. Determination of age from the pubic symphyses. **Reading assignment: Chapter 14**
**October 3:** Os Coxae. Determining sex; locomotion and childbirth. **Reading assignment: pg 374-379 (HBM)**
**October 5:** ***QUIZ 4***
**October 8:** The Thoracic Cage – Ribs & Sternum. **Reading assignment: Chapter 11**
**October 10:** Play "Who Wants to Be an Osteologist" for Fabulous Prizes!
**October 12:** Individual meetings with instructors; free lab time.
**October 15:** Clavicle and Scapula. **Reading assignment: Chapter 10**
**October 17:** "Bones I have Known"
**October 19:** ***QUIZ 5***
**October 22:** Humerus, Radius and Ulna. **Reading assignment: Chapter**
**October 24:** Humerus, Radius and Ulna II – Musculature of the Arm

**October 26:** ***QUIZ 6***
**October 29:** The Hand. **Reading assignment: Chapter 13**
**October 31:** The Fingers. **Reading assignment: Chapter 13**
**November 2:** Femur, Tibia, Fibula and Patella. **Reading assignment: Chapter 15**
**November 5:** Femur, Tibia, Fibula and Patella (continued)
**November 7:** Determining stature and age from the long bones
**November 9:** *No Class; Homecoming!*
**November 12:** *No Class; Veterans Day!*
**November 14:** The Foot. **Reading assignment: Chapter 16**
**November 16:** ***QUIZ 7***
**November 19:** The Foot II..
**November 21:** *No Class; Thanksgiving Break!*
**November 23:** *No Class; Thanksgiving Break!*
**November 26:** The immature skeleton; age determination of fetuses and juveniles
**November 28:** Review of appendicular skeleton
**November 30**: ***QUIZ 8***
**December 3:** No Class - Independent and supervised laboratory work
**December 5: Cumulative Final Examination**

## Rules for the Forensic Research and Teaching Laboratory, B-342 Turlington Hall

- 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 lock; students in this course will be granted access via their UFID numbers. Students not enrolled in this course should not be permitted to enter the lab. 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.
- Permission for visitors to the laboratory must be received from Dr. Warren or Ms. Price, or another faculty member. NO EXCEPTIONS!
- No specimens are to leave B-342 Turlington Hall
- All skeletal remains, laboratory equipment, and other teaching materials are to be treated with the utmost respect.
- The teaching laboratory is not a social center. Please be respectful of other student's study time.
- ***Any transgressions of these rules will lead to point loss and/or dismissal from the course.***