



Human Skeletal Biology

Anthropology 102A

Tuesdays, Thursdays 1:00-4:30 pm June 26 – July 26, 2018

Social Sciences 1, Rm. 461 (teaching lab)

Instructor: Dr. Susan Kuzminsky

Contact Information:

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Office: Social Sciences 1, Room 201

Office Hrs.: Thursdays, 4:30-5:50 or by appointment

Course Description and Goals:

This course introduces students to the study of human osteology, which provides the foundation for forensic anthropology, paleoanthropology, and bioarchaeology. Researchers working within these anthropological subfields focus on a variety of topics to investigate human behavior and adaptation, population history, and forensic identification. The primary goal of this course is to learn to identify skeletal material by element and know the important anatomical landmarks for each skeletal element. Students will also learn to distinguish human from non-human bone. While the course does not include any writing assignments or in-depth reading, it does require full class participation and several lab hours outside class to study the osteological teaching collections. Study of the comparative osteological collections and thorough review of the assigned chapters will help you learn human skeletal anatomy and succeed in this course. **Warning: This class moves very fast, so please make sure to study, review lectures and readings as they are scheduled to avoid falling behind!**

Learning Outcomes:

- Understand the biology of human bone
- Know the anatomy of each bone in the human body
- Demonstrate knowledge of the key anatomical landmarks on each human bone
- Know the human dental formula and morphology for all teeth
- Distinguish human from non-human bone (e.g. humans vs. other mammals, fish, and birds)

Texts:

Human Osteology, 3rd Edition by Tim D. White, Michael T. Black, and Pieter A. Folkens, Academic Press (also available through the UCSC library as an e-book)

Human Osteology: A Laboratory and Field Manual, 5th Edition by William M. Bass, Missouri Archaeological Society (not required)

Course Expectations:

To earn a good grade in the course, students are expected to attend all classes and complete the quizzes and final exam.

Note: This syllabus is subject to change. If changes occur, students will be notified in class or through the course website.

Grading

Percent of Final Grade

Final	30%
Quizzes (4)	60%
Attendance	10%
Total	100%

Grade Breakdown:

Percentage Points	Letter Grade
100-97	A+
96-93	A
92-90	A-
89-87	B+
86-83	B
82-80	B-
79-77	C+
76-70	C
69-60	D
Below 60	F

Weekly Quizzes:

There are a total of five cumulative quizzes through the quarter. Weekly quizzes are held on Thursdays and will begin promptly at the beginning of class. **If you are late, you cannot take the quiz.** There are no makeup quizzes. The only exception for a make-up quiz is with a documented emergency and/or illness. You must email me **BEFORE** the quiz if you have a medical emergency.

Quizzes are timed for each question and you will have to identify whether the bone is human/non, the skeletal element, side (if necessary), and/or anatomical landmark (if necessary). You must spell the anatomical terms correctly to receive full credit for each question. The content of quizzes varies, but will generally consist of skeletal material studied for the week, plus some material from previous weeks.

Final Exam:

The final exam is a cumulative, timed exam. To receive full credit, you will be required to identify whether the bone is human/non, the skeletal element, side (if necessary), and/or anatomical landmark (if necessary). Correct spelling of anatomical terms is required to receive full credit for each question. There are no makeup exams. The only exception for make up midterm or final exams is with a documented medical emergency and note from a physician or hospital. You must email me **BEFORE** the quiz if you have a medical emergency.

Lab:

This is a demanding course that entails shorter in-class lectures, but will require extra study time with the osteological teaching collections. The lab hours will be posted through Canvas and you may enter the lab only during these study hours. All materials in the lab are to be handled with care, following the procedures discussed during the course introduction. Removal of lab materials is strictly prohibited. Each class will be divided between a short lecture or quiz (quizzes only on Thursdays), and lab study time.

Academic Integrity:

A reminder that it is your ethical responsibility as a student to follow the UCSC policy on academic

dishonesty, plagiarism, and cheating: https://www.ue.ucsc.edu/academic_misconduct

Week 1	<p>Planes of reference and directional terms human vs. non-human bone (Part 1) Skull Mandible Teeth (Part 1)</p> <p>Reading: White, Black & Folkens Chapters 1-4</p> <p>Quiz on Thursday (covering skull, mandible, some human/non-human bone)</p>
Week 2	<p>Teeth (Part 2) Hyoid, Vertebrae, Thorax (Sternum & Ribs)</p> <p>Reading: White, Black & Folkens Chapters 5-7</p> <p>Quiz on Thursday (covering teeth, hyoid, thorax)</p>
Week 3	<p>Shoulder Girdle, Part 2 -human/non-human bone, arm bones Bones of Infants & Children</p> <p>Reading: White, Black & Folkens Chapters 8-9</p> <p>Quiz on Thursday (covering vertebrae, thorax, arm bones)</p>
Week 4	<p>Carpals, Metacarpals, Phalanges Sacrum, Coccyx, Os Coxae</p> <p>Reading: White, Black & Folkens Chapters 10-11</p> <p>Quiz on Thursday (covering infants, arm bones, carpals, metacarpals, phalanges)</p>
Week 5	<p>Leg bones, tarsals, metatarsals (Tuesday)</p> <p>Reading: White, Black & Folkens Chapters 12</p> <p>Final Quiz (Cumulative) on Thursday 7/26</p>