

HUMAN OSTEOLOGY

ANTH/ARCG/E&EB S464

SUMMER 2024

COURSE DESCRIPTION

In this course we examine the characteristics of the human skeleton and its use in studies of functional anatomy. Labs will familiarize students with the identification of human bones and bony landmarks, while lectures will focus on general aspects of bone biology, soft tissue features (muscles, nerves, and vessels) associated with bones, and techniques for assessing the age and sex of skeletal material.

COURSE ORGANIZATION

Lectures and labs will be in room 10 of 10 Sachem Street on Tuesdays and Thursdays from 1-4:15pm. **Labs will be in a flipped classroom format, so lab content must be studied before the corresponding lab exercises**, which will include handling human skeletal specimens. Quizzes will be in a laboratory practical format.

COURSE INSTRUCTORS

Professor: Eric Sargis
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Office: 10 Sachem Street, Room 208
Office Hours: by appointment

Teaching Fellow: TBD

COURSE REQUIREMENTS

4 quizzes: 25% each

TEXTBOOK AND ONLINE RESOURCES

Textbook: *Human Osteology*, 3rd ed. by White, Black, & Folkens. This book is available at the bookstore and online:

<https://www.amazon.com/Human-Osteology-Tim-D-White-ebook-dp-B004MPRDUY/dp/B004MPRDUY/>

<https://www.elsevier.com/books/human-osteology/white/978-0-08-092085-6>

Web Sites:

<https://sketchfab.com/mzechini/collections/roger-recommended-osteology-guide-for-e-readers>

<http://eskeletons.org/>

GRADING SCALE

The grading scale below represents the percentage of total points from the four quizzes. **There is no additional extra credit.**

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
F:	59 and below

SCHEDULE

<u>Date</u>	<u>Topics and Textbook Readings:</u>
July 2	Lecture 1: introduction to course (syllabus), anatomical terminology, bone biology. Lecture 2: dentition and estimating age. <u>Chapters 1-3; 5, 18 (pp. 385-389)</u>
July 4	Lecture 3: axial skeleton (1 hour). Lab: dentition and axial skeleton. <u>Chapters 6-7, 11 (pp. 219-226)</u>
July 9	Lab: dentition and axial skeleton. Quiz 1 (~3pm) . Lecture 4: skull. <u>Chapters 6-7, 11 (pp. 219-226); 4</u>
July 11	Lecture 5: assessing age and sex*. Lab: skull. <u>Chapters 4 & 18 (pp. 379-384, 389-391, 408*-415)</u>
July 16	Lab: skull. <u>Chapters 4 & 18 (pp. 379-384, 389-391, 408*-415)</u>
July 18	Lab: skull. Quiz 2 (~3pm) . Lecture 6: upper limb. <u>Chapters 4 & 18 (pp. 379-384, 389-391, 408*-415)</u>

- July 23 Lab: upper limb, estimating age.
Chapters 8-10, 18 (pp. 391-394)
- July 25 Lab: upper limb. **Quiz 3 (~3pm)**. Lecture 7: lower limb.
Chapters 8-10, 18 (pp. 391-394)
- July 30 Lab: lower limb, assessing age and sex*.
Chapters 11-13, 18 (pp. 394-400, 408*, 415-419)
- Aug. 1 Lab: lower limb, assessing age and sex*. **Quiz 4 (~3:40pm)**.
Chapters 11-13, 18 (pp. 394-400, 408*, 415-419)

*p. 408 covers sex versus gender in human osteology and archaeology.