

ANT4525 / ANG 5525 Human Osteology

Spring 2023

Classroom Location: Turlington Hall, 1208J (Osteology Laboratory)

Class Meeting Time: MWF Period 3 (9:35 – 10:25)

Instructor: David Daegling

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Phone: 294-7603

Office Hours: M 10:30AM – Noon, W 1-3PM and by appointment

Office Location: Turlington B376

Course Description:

This course introduces the concepts and methods used in the analysis of human skeletal remains from forensic and archaeological contexts. The skills learned and practiced in this course provide a foundation for more advanced studies in comparative anatomy, bioarchaeology, forensic anthropology, paleoanthropology, and paleopathology. This course involves lectures, in-class activities, online resources, and significant independent laboratory study time.

Student Learning Objectives:

Upon successful completion of this course, students will be able to:

- 1) identify whole and fragmentary human skeletal elements
- 2) relate bone features to associated soft tissue
- 3) distinguish between human and non-human bone
- 4) estimate age, sex, ancestry, and stature of an individual
- 5) discuss and evaluate osteological applications in fields such as comparative anatomy, bioarchaeology, forensic anthropology, paleoanthropology, and paleopathology.

Success in this course usually requires at least 10 hours per week of independent laboratory study time in preparation for the quizzes. Performance on the lab practical quizzes and final exam is directly related to the amount and quality of your independent study.

Texts:

Required:

White TD, Folkens PA (2005) The Human Bone Manual. Academic Press.

Recommended Alternative:

White TD, Black MT, Folkens PA (2011) Human Osteology, 3rd ed. Academic Press.
(This is an expanded but more expensive alternative to The Human Bone Manual.)

Other Recommended:

Bass WM (1995 or 2005) Human Osteology: A Laboratory and Field Manual. Missouri Archaeological Society.

Buikstra JE, and Ubelaker D (1994) Standards for the Data Collection from Human Skeletal Remains. Fayetteville, AR: Arkansas Archeological Survey.

All other materials are posted online (Canvas: <https://ufl.instructure.com/>) or provided in lab.

Course Requirements:

- 1) 12 cumulative practical quizzes (60% of the course grade, lowest score dropped)
- 2) Cumulative final practical exam (10% of the course grade)
- 3) Osteology Notebook (20% of the course grade; guidelines below)
- 4) Final Project (10% of the course grade; guidelines below)

Practical Quizzes and Final Exam

Quizzes and exams will involve the identification of fragmentary skeletal remains and anatomical features as well as short-answer questions. The format for quizzes and the final exam will be discussed the first week of class. Quizzes may not be retaken, but the **lowest quiz score will be dropped at the end of the term**. The final practical exam grade **cannot** be dropped.

Students are not permitted to discuss the quizzes or final exam with any other student who has not already completed their quiz or exam.

Osteology Notebook Guidelines

Each student is responsible for compiling a notebook of their own labeled drawings and notes. Required notebook items are listed below. Consult the specific guidelines posted on Canvas.

- 1) Drawings
- 2) Lists, flow charts, and tables that record your process for identifying skeletal fragments.
- 3) Lab Quizzes (12); for each incorrect answer, provide an annotation highlighting the reasoning process for correct identification.
- 4) Your class notes.

Application Article Presentation Guidelines

Students will complete a final project to share with the class. This is intended to be an opportunity for you to create something that builds on all the knowledge that you have gained in this course. Acceptable formats for the final project include detailed infographics, learning modules, or original research proposals. Possible topics will be discussed throughout the course. Your plan for the final project will be submitted for approval in March.

Grading:

Final grades will be distributed per the weighted scheme noted above without exception:

| | | | |
|----|-----------|----|------------|
| A | > 92% | C | 72% - 76% |
| A- | 89% - 92% | C- | 69% - 72% |
| B+ | 86% - 89% | D+ | 66% - 69% |
| B | 82% - 86% | D | 62 % - 66% |
| B- | 79% - 82% | D- | 59% - 62% |
| C+ | 76% - 79% | E | < 59% |

Other Policies:

Smart phones, iPods, and all other mobile devices must be silenced during class.

Students are expected to attend all lectures with assigned readings completed. Some materials presented in class may not be available outside of class. If a student is unable to attend class, it is **the student's responsibility** to get the notes from a classmate.

UF students are bound by The Honor Pledge. Plagiarism or cheating in any form is subject to university policy as outlined by the Dean of Students (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>). The Code specifies a number of behaviors that are in violation of this code and the possible sanctions. You are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

This class supports the needs of different learners; it is important for students to share their accommodation letter with their instructor and discuss their access needs. Students requesting classroom accommodation must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. This documentation must be presented to the instructor by the end of the first week of classes if accommodations are to be made within a timely manner.

Quizzes missed due to a documented illness or emergency may be rescheduled when appropriate documentation is supplied. Please do not attend lectures or quizzes if you are ill. We will follow UF policies concerning COVID-19 in this course. Updates at <https://coronavirus.ufhealth.org/>.

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. [the GatorEvals website](#). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via [the evaluation system](#). Summaries of course evaluation results are available to students at the [public results website](#).

Other UF Resources

- University Police: The UF police are together for a safe campus. 392-1111 (or 9-1-1 for emergencies); <http://www.police.ufl.edu/>.
- Career Connections Center: (352-392-1601 | CareerCenterMarketing@ufsa.ufl.edu) Connects job seekers with employers and offers guidance to enrich your collegiate experience and prepare you for life after graduation.
- Counseling and Wellness Center: (352-392-1575) Provides counseling and support as well as crisis and wellness services including a variety of workshops throughout the semester (e.g., Yappy Hour, Relaxation and Resilience).
- Disability Resource Center: (DRCaccessUF@ufsa.ufl.edu : 352-392-8565)
Helps to provide an accessible learning environment for all by providing support services and facilitating accommodations, which may vary from course to course. Once registered with DRC, students will receive an accommodation letter that must be presented to the instructor when requesting accommodations. Students should follow this procedure as early as possible in the semester.
 - Multicultural and Diversity Affairs: (352-294-7850) Celebrates and empowers diverse communities and advocates for an inclusive campus.
- Office of Student Veteran Services: (352-294-2948 | vacounselor@ufl.edu) assists student military veterans with access to benefits.

Course Schedule:

| <i>Month</i> | <i>Date</i> | <i>Day</i> | <i>Topic</i> | <i>Required Reading (White & Folkens 2005)</i> |
|--------------|-------------|------------|---|--|
| Jan | 9 | M | Course outline and expectations | |
| | 11 | W | Anatomical Terminology | Ch. 1, 3, 6 |
| | 13 | F | Drop/Add ends Bone biology and joints DUE: Signed form | Ch. 4 |
| | 16 | M | NO CLASS: Martin Luther King Holiday | |
| | 18 | W | Skull I: Bones | Ch. 7; Ch. 9 (155-156) |
| | 20 | F | LAB QUIZ #1 | |
| | 23 | M | Skull II: foramina and nerves | Review Ch. 7 |
| | 25 | W | Skull development; Craniometrics | review Ch. 4 Online handouts |

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| | 27 | F | LAB QUIZ #2 | |
| | 30 | M | Dentition | Ch. 8 |
| | 1 | W | Vertebral Column | Ch. 9; Ch. 14 (241-245) |
| Feb | 3 | F | LAB QUIZ #3 | |
| | 6 | M | Ribs and sternum | Ch. 10 |
| | 8 | W | Human vs. Non-human remains | Online handouts |
| | 10 | F | LAB QUIZ #4 | |
| | 13 | M | Shoulder Girdle: Clavicle and Scapula | Ch.11 |
| | 15 | W | Upper Limb: Humerus, Radius, Ulna | Ch. 12 |
| | 17 | F | LAB QUIZ #5 | |
| | 19 | M | Upper Limb: Carpus | Ch. 13 |
| | 21 | W | Upper Limb: Hand | Ch. 13 |
| | 24 | F | LAB QUIZ #6 | |
| | 27 | M | Os Coxae | Ch. 14 |
| | 1 | W | Lower Limb: Femur, Tibia, Fibula, Patella | Ch. 15 |
| | 3 | F | LAB QUIZ #7 | |
| Mar | 6 | M | Lower Limb: Tarsus | Ch. 16 |
| | 8 | W | Lower limb: Foot | Ch. 5, 17 |
| | 10 | F | LAB QUIZ #8 | |
| | 20 | M | Biological Profile: Age | Ch. 19 (363-385); Online handouts |
| | 22 | W | Biological Profile: Sex | Ch. 19 (385-398) Online handouts |
| | 24 | F | LAB QUIZ #9 | |
| | 27 | M | Biological Profile: Ancestry | Ch. 19 (400-411) Online handouts |

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| | 29 | W | Biological Profile: Stature | Ch 19 (398-400) |
| | 31 | F | LAB QUIZ #10 | |
| Apr | 3 | M | Trauma, Pathology, and Taphonomy | Ch. 17 |
| | 5 | W | MNI and commingling | Ch. 18 |
| | 7 | F | LAB QUIZ #11 | |
| | 10 | M | Skeletal Biomechanics | |
| | 12 | W | Evolution of the Human Skeleton | |
| | 14 | F | LAB QUIZ #12 DUE: Osteology Notebook DUE: Final Project | |
| | 17 | M | Final Project Presentations | |
| | 19 | W | Independent Lab Study | |
| Apr | 21 | F | Independent Lab Study | |
| | 24 | M | Final Project presentations | |
| | 26 | W | Final Project presentations | |
| | | | | |
| May | 4 | W | Final Exam 12:30 – 2:30 PM | |

The following rules constitute a contract between student and Instructor. Your signature below represents your commitment to upholding this contract, and your understanding that failure to do so will lead to point loss and/or dismissal from the course.

Please print, read and sign this page. Turn it in to the Instructor by the date noted on the schedule. Failure to turn in a signed form will result in loss of Osteology Lab privileges.

Rules for the Osteology Laboratory (Turlington Hall 1208J):

- Students must sign in and out of the lab on every visit outside of scheduled class time.
- The room is to remain secure at all times. Access is controlled by a keypad entry lock; students in this course will be granted access (first 6 digits of UF ID, then press the star key). Lock the room if you are the last to leave – even if you only leave briefly. **If the room is found unlocked, the last group listed on the sign in sheet will be penalized.**
- Visitors are not allowed in the lab at any time. NO EXCEPTIONS!
- No specimens are to leave 1208J Turlington Hall (Osteology Laboratory).
- Food and drink are prohibited in the laboratory.
- Photography of course materials or skeletal remains is strictly prohibited.
- The teaching laboratory is not a social center. Be respectful of other students' study time.
- Be respectful of all Anthropology Department staff and other Turlington Hall staff.
- Osteology students are restricted to specimens in the plastic boxes on the back wall of the teaching laboratory, and to additional materials only as provided by the Instructor.
- Above all, please remember that all skeletal remains, laboratory equipment, and other teaching materials are to be treated with the utmost respect.

Transgression of these rules will lead to point loss and/or dismissal from the class.

I _____ (print name) certify that I have read the above rules and understand that failure to comply will lead to point loss and/or dismissal from the course.

Signed: _____ UFID: _____

Date: _____