

ANT4525/ANG5525 - Human Osteology

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

Class Meeting Times: Tuesday, Period 7 (1:55-2:45)
Thursday, Period 6-7 (12:50-2:45)

Instructor: Dr. Valerie Burke DeLeon

Email: vdeleon@ufl.edu

Office Hours: Wednesdays 10:00am-12:00pm and by appointment

Office Location: Turlington B374

TA: Ms. Rose Bryson, MSc

Email: ebryson@ufl.edu

Office Hours: Thursdays 2:45pm-4:45pm and TBD

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 strong foundation for more advanced studies in comparative anatomy, bioarchaeology, forensic anthropology, paleoanthropology, and paleopathology.

For Fall 2021, we'll be using a flipped classroom approach. This places a responsibility on you, as the student, to review the material and prepare in advance for each class. The benefit is that we will be able to use our time together in the Osteology Lab more effectively (and hopefully have more fun!) This is a three (3) credit course. You will have 3 contact hours and an additional 9-12 hours of preparation, review, and assessments each week.

Student Learning Objectives:

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

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

Expectations of Time Required Weekly:

- PREPARATION (reading, videos) likely requires 3 hours
- IN-CLASS lab activities require 3 hours
- REVIEW activities require a minimum of 4 hours, and more is often required
- QUIZ and review of feedback takes 1 hour
- SPECIAL PROJECTS (flip-thrus and final project) will add additional time requirements
- **SUCCESS in this course requires a minimum of 12 hours of effort every week!**

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 a recommended 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.

Additional materials will be posted online (Canvas). The course website contains all pertinent information for the course, including the syllabus, handouts, and grades.

Graded Work:

Percent of Total Grade	Assignment	Point Totals (Out of 2600 pts.)
50%	Fourteen (14) weekly Practical Quizzes <i>100 points each; lowest grade is dropped</i>	1300
15%	Fourteen (14) weekly Asynchronous Pre-Quizzes <i>30 points each; lowest grade is dropped</i>	390
10%	Osteology Notebook (Midterm & Final flip-thru videos) <i>130 points each</i>	260
10%	Final Project	260
15%	Final Practical Exam	390

Practical Quizzes and Final Exam

Quizzes and the final exam will involve the identification of fragmentary skeletal remains and anatomical features, and may include short-answer questions. Quizzes and the final exam are cumulative; quizzes will be held in class each week and include material covered from the weeks prior. These assessments are timed; students will have one minute per question/station. Your goal is to develop the ability to quickly recognize diagnostic features and make an immediate determination of element(s), side, and feature. This is a valuable skill for anyone who will be working with skeletal remains in their future professional career. We will post plenty of practice quizzes and study material, so you'll get the hang of it quickly!

Students are not permitted to discuss the quizzes or final exam with any other student who has not already completed their quiz or exam (this includes students from other course sections).

Quizzes may not be retaken, but the **lowest quiz score will be dropped at the end of the term**. The grade for the final practical exam **cannot** be dropped.

Pre-Quizzes (Beginning of the Week Quiz)

Each week, prior to Tuesday lab sessions, students will complete and submit assigned “pre-quizzes” based on the readings and lecture videos for the upcoming week. These beginning of the week quizzes will include questions or activity sheets designed to help you exercise your understanding of the upcoming week’s material. Please note that while students may study together before the Pre-Quiz, each student must complete all portions of each pre-quiz by themselves and submit their own work.

Osteology Notebook Guidelines

Each student in this course is responsible for compiling a notebook of their own labeled drawings of skeletal elements, activities, and notes. **Artistic skill is not important**; you won’t be graded on how nice your drawings are. The main purpose of drawing all skeletal elements is to force you to observe every little curve, crease, and bump on each bone. Once at the midterm and once at the end of the semester you will demonstrate progress on your notebook by sharing notebook “flip-thrus.” These are short 2-3 minute videos that you can record using your cell phone, computer, or other camera. You’ll have an opportunity to see what other people are doing and share ideas and study strategies with your student colleagues. We’ll post a few examples of flip-thru videos from previous semesters for some added inspiration. *Required notebook items are posted in Canvas and will be discussed in class.*

Final Project

Students will complete a final project to share with the class in the week before final exams. This is intended to be a fun opportunity for you to create something that builds on all the knowledge that you have gained throughout the class. Acceptable formats for the final project include detailed infographics, learning modules, or original research proposals. We’ll discuss possible options throughout the course. Your plan for the final project will be submitted for approval in October, so you’ll have plenty of time to work on it.

Policy on Late and Make-up Work

Graded requirements that are submitted late due to a documented illness or emergency may be rescheduled; however, 48 hours prior notice should be given to the Primary Instructor, and documentation must be supplied. In the case of unexpected emergencies, the Instructor must be notified in advance, or as soon as possible thereafter, and the student should provide documentation immediately following the occurrence. If you are ill or withheld from campus, please stay home, in accordance with our COVID Statement below. Synchronous activities will be provided for you. If you are ill or withheld from campus during a scheduled Practical Quiz or Final Exam, a make-up will be scheduled for you. The make-up assessment may be administered in-person or online, at the discretion of the instructor.

Grading

Graded requirements for this course are listed above under “Graded Work.” Grading is based on a percentage earned of a total of points. Grading in this class is consistent with UF policies available at: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

Letter Grade	Range:	
A	100 %	to 93.0%
A-	< 93.0 %	to 90.0%
B+	< 90.0 %	to 87.0%
B	< 87.0 %	to 83.0%
B-	< 83.0 %	to 80.0%
C+	< 80.0 %	to 77.0%
C	< 77.0 %	to 73.0%
C-	< 73.0 %	to 70.0%
D+	< 70.0 %	to 67.0%
D	< 67.0 %	to 63.0%
D-	< 63.0 %	to 60.0%
F	< 60.0 %	to 0.0%

Policy on Respectful Use of Human Remains

We are privileged in this course to study the skeletal remains of individual humans. Lab policies are strictly enforced in both the virtual and face-to-face lab environment. We will adhere to a strict policy of dignity and respect for the human remains that we study in both the face-to-face and virtual Osteology Labs.

- Your conduct in this class should demonstrate respect for human remains. This includes handling the material gently in the face-to-face lab. Respect for human remains is also demonstrated by the words that we use to describe the material with which we are working. This applies in both face-to-face and virtual environments.
- **Images of human remains (2D or 3D) provided for this course via Canvas should NOT be downloaded to your personal devices.** Lecture videos are available for streaming only. All other content with images of human remains (2D or 3D) should be accessed only via Canvas and should NOT be included in your personal notes for class. The only exception to this rule is where we have indicated that a specific image is publicly available.
- No photography is permitted in the Osteology Teaching Lab (TUR 1208J).
- No screen shots or photos should be taken of Canvas lecture videos that include images of remains.
- No specimens are to leave the Osteology Teaching Lab (TUR 1208J).
- Food and drink are prohibited in the laboratory.
- Visitors are not allowed in the lab at any time. NO EXCEPTIONS!

COVID Statement

In response to COVID-19, the following practices are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available at no cost and have been demonstrated to be safe and effective against the COVID-19 virus. Visit this link for details on where to get your shot, including options that do not require an appointment: <https://coronavirus.ufhealth.org/vaccinations/vaccine-availability/>. Students who receive the first dose of the vaccine somewhere off-campus and/or outside of Gainesville can still receive their second dose on campus.
- You are expected to wear approved face coverings at all times – during class and within buildings – even if you are vaccinated. Please continue to follow healthy habits, including best practices like frequent hand washing. Following these practices is our responsibility as Gators.
 - Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
 - Hand sanitizing stations are located within the classroom and throughout campus.
- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email covid@shcc.ufl.edu) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself. Visit the [UF Health Screen, Test & Protect website](#) for more information.
 - Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.
 - If you are withheld from campus by the Department of Health through Screen, Test & Protect you are not permitted to use any on campus facilities. Students attempting to attend campus activities when withheld from campus will be referred to the Dean of Students Office.
- Continue to regularly visit coronavirus.UFHealth.org and coronavirus.ufl.edu for up-to-date information about COVID-19 and vaccination.

Other Course Policies:

- Honor Pledge: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (sccr.dso.ufl.edu/process/student-conduct-code/) specifies several behaviors that are in violation of this code and the possible sanctions. Furthermore, 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 or TAs in this class.

- Contact Hours: "Contact Hours" refers to the hours per week in which students are in contact with the instructor, excluding office hours or other voluntary contact. The number of contact hours in this course equals the number of credits the course offers.
- Workload: As a Carnegie I, research-intensive university, UF is required by federal law to assign at least 2 hours of work outside of class for every contact hour. Work done in these hours may include reading/viewing assigned material and doing explicitly assigned individual or group work, as well as reviewing notes from class, synthesizing information in advance of exams or papers, and other self-determined study tasks.
- Accommodation for Student with Disabilities: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. 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 as early as possible in the semester.
- Course Evaluations: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available from [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](#).

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.

Weekly Schedule

Topics	Graded Work	DUE
Week 1: Intro and Ethics	Pre-Quiz #1	Thu Aug 26
Week 2: Skull, Joints, Bone biology	Pre-Quiz #2	Tue Aug 31
	Practical Quiz #1	Tue Aug 31
	Acknowledgement of Lab Policies	Tue Aug 31
Week 3: Skull: Foramina and nerves	Pre-Quiz #3	Tue Sep 7
	Practical Quiz #2	Tue Sep 7
Week 4: Dentition, bone development, craniometrics	Pre-Quiz #4	Tue Sep 14
	Practical Quiz #3	Tue Sep 14
Week 5: Spine and thorax	Pre-Quiz #5	Tue Sep 21
	Practical Quiz #4	Tue Sep 21
Week 6: Upper Limb #1	Pre-Quiz #6	Tue Sep 28
	Practical Quiz #5	Tue Sep 28
Week 7: Upper Limb #2	Pre-Quiz #7	Tue Oct 5
	Practical Quiz #6	Tue Oct 5
	Final Project Proposal	Thu Oct 7
Week 8: Upper Limb #3 and Nonhuman	Pre-Quiz #8	Tue Oct 12
	Practical Quiz #7	Tue Oct 12
	Midterm Notebook Flip-Thru	Thu Oct 14
Week 9: Lower Limb #1	Pre-Quiz #9	Tue Oct 19
	Practical Quiz #8	Tue Oct 19
Week 10: Lower Limb #2	Pre-Quiz #10	Tue Oct 26
	Practical Quiz #9	Tue Oct 26
Week 11: Bioarchaeology and Biomechanics	Pre-Quiz #11	Tue Nov 2
	Practical Quiz #10	Tue Nov 2
Week 12: Bioprofile – Sex, Age, & Stature	Pre-Quiz #12	Tue Nov 9
	Practical Quiz #11	Tue Nov 9
Week 13: Bioprofile – Ancestry and MNI	Pre-Quiz #13	Tue Nov 16
	Practical Quiz #12	Tue Nov 16
Week 14: Trauma, Pathology, Taphonomy	Pre-Quiz #14	Tue Nov 23
	Practical Quiz #13	Tue Nov 23
	Final Notebook Flip-Thru	Tue Nov 23
	Thanksgiving Break NO CLASS (Thursday, Nov. 25th)	
Week 15: Final Projects Presentations	Practical Quiz #14	Tue Nov 30
	Final Project	Tue Nov 30
Week 16: Review	Final Exam Review	Tue Dec 7
FINAL EXAM	Final Exam	Fri Dec 17

Please note that the syllabus and schedule are subject to change to accommodate any changes to university policies.