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ANTY 412.01: Osteology

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ANTHROPOLOGY 412: OSTEOLOGY

Spring 2022 M/W 10:00-11:20AM

Instructor: Haley O'Brien, MA

Office: SS 217

Email: haley.obrien@umontana.edu

Office Hours: Monday 11:30-2:00pm or by Appointment

This course meets Monday & Wednesday from 10:00-11:20am in room SS250. External Lab hours will also be REQUIRED.

Prerequisites: ANTY 314, or instructor permission.

Course Objectives:

The purpose of this course is to provide upper division undergraduate and graduate students with a thorough overview and a comprehensive understanding of human skeletal anatomy. The course is designed to provide the student with the necessary skills to conduct a basic human/non-human skeletal analysis and should provide a strong background for those wishing to pursue more advanced studies in forensics anthropology, bioarchaeology, and human skeletal biology.

Upon completion of this course, you will be able to:

- Identify human versus non-human bone
- Identify whole and fragmentary human remains
- Identify anatomical features and structural elements of individual bones
- Become familiar with basic skeletal analysis

Some Advice:

This course requires considerable effort and study on the part of the student. The key to success is to come to class prepared, be on time, and attend at least 2 hours of lab outside of class. The more time you put in to going over the course materials, the better you will do on the practical exams/quizzes. Poor attendance will result in a low grade for the course. If you need to contact me, please drop by my office during scheduled office hours or make an appointment. Please use email for brief communications only.

Texts:

There is one required text and two recommended texts for this course. Additional required and supplemental course readings will be available through Moodle or provided in class. If readings and handouts are provided on Moodle, is it your responsibility to print them out before class.

Required Texts:

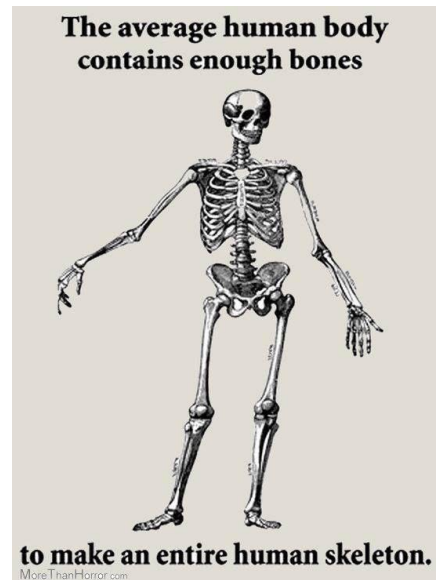
White, Tim D. and Pieter A. Folkens

2011 Human Osteology 3rd ed. Academic Press: San Diego, CA. ISBN-13: 978-0123741349

Optional Texts:

Bass, William M.

2005 Human osteology: a laboratory and field manual of the human skeleton. ISBN-13: 978-0943414966



Buikstra JE & Ubelaker DH, editors.

1994 Standards: for Data Collection from Human Skeletal Remains. Arkansas Archeological Survey.

Classroom/Laboratory Rules:

Because we will be handling real human skeletal materials in this class, it is imperative that all human remains are treated with the utmost respect. Please note the following rules/regulations regarding the handling of the UMFC:

- Always wash your hands prior to handling any and all course materials during lecture or lab. It is far easier/safer for you to regularly wash your hands than it is to clean skeletal remains.
- Treat all course materials with care, using both hands, and held over the lab tables.
- Never pick up a skull by the zygomatic arch or by the eye orbits.
- DO NOT articulate the mandible and maxilla unless there is foam padding in-between.
- DO NOT use pens or pencils to point things out on a bone because it can cause damage or stain skeletal remains.
- Food and drinks are not allowed on the laboratory tables when specimens are out. Only water bottles with closed lids will be allowed in the lab.

- Finally, please **turn off and/or silence all cell phones (including text messaging)** before class begins.

Failure to follow these rules may result in your excusal from the course.

Attendance (Lecture):

Students are expected to attend every class and complete all assigned readings and assignments on time. Attendance is **mandatory** and is part of your grade. We will pass out an attendance sheet at the beginning of each class. If you are late for class or you forget to sign in, you will be marked absent for that day. You are permitted two absences (excused or unexcused) during the semester and will lose 1 point for each class period missed thereafter until all attendance points are lost.

Attendance (Lab):

Students are required to attend *at least* 2 hours of outside lab time. Lab hours will be overseen by the Osteology Preceptors which will be introduced during the first class. Attendance will be taken via a sign in sheet, for each lab.

While attending more than 2 hours of lab a week is not required, it is a tried-and-true reality of this course that the more hours spent in lab, the better grades you will likely get on the practical tests/quizzes.

Late Assignments & Missing Exams:

Late homework assignments will not be accepted without a documented medical reason or family emergency. All assignments, extra course readings, and handouts will be available through Moodle or provided in class.

You **MUST** attend each exam!!! No exceptions will be given for those that miss exams. Exams are practical and take a lot of prep work and therefore are only offered once.

Course Requirements

Lecture attendance: There are 28 classes total for the semester. One point per class will be given for attendance with two allowed missed classes for a maximum class attendance of 26 points.

Lab hours (2 hours & 2 points per week): There are 15 weeks of class total, not including Spring Break. There is a total of 14 weeks where lab hours will count toward your grade.

4 Practical Tests/Quizzes: Quizzes will be cumulative as the semester goes on. They are practical and will involve identification on samples from the UM osteological collection. Some sample stations/questions will be available for study before the quiz, but I reserve the right to use any materials available to me. Although cumulative, each quiz will emphasize the materials most recently presented.

Graduate component Graduate students will be required to answer the Bonus Bone questions for all quizzes.

Writing Assignment: One writing assignment will be due the last day of regular classes Friday, **May 4th**. More information will be given in class.

Final Exam: The final exam is practical and cumulative. This means it will cover all information for the entire semester. No exceptions will be given for missing the final. Some sample stations/questions will be available for study before the final, but I reserve the right to use any materials available to me.

Graduate component Graduate students will be required to answer a short answer question during the final.

Grading Policies

Grades are assigned on a straight scale (no curve unless deemed necessary by myself). I hold graduate student work to a higher standard of quality for all quizzes and assignments.

<i>Grade Breakdown</i>	<i>Points</i>
Quizzes 1 & 2 (25 pts each)	50
Quizzes 3 & 4 (50 pts each)	100
Final Exam	100
Writing Assignment	25
Attendance - Lecture (28 classes)	26
Attendance - Lab (14 weeks)	28
<i>Total</i>	329

Grades will be assigned as follows:

A = 100-90 % (296-329)

B = 89-80% (263-295)

C = 79-70% (230-262)

D = 69-60% (197-229)

F = <60 % (≤ 196 points)

CODE OF ACADEMIC CONDUCT

This class has a zero-tolerance policy and will promptly deal with any acts of academic dishonesty (cheating, plagiarism, or unauthorized help on assignments, etc.) according to university policy. For further information on what falls into these categories see:

http://life.umt.edu/vpsa/student_conduct.php.

If you have questions or concerns, please contact your professor.

STUDENTS WITH DISABILITIES

If you are a student with a disability and wish to request reasonable accommodations for this course, contact me privately to discuss the specific modifications. Please be advised, I may request that you provide a verification letter from the Office for Disability Equity (ODE). If you have not yet registered with ODE, located in Lommasson Center 154, please do so in order to coordinate your reasonable modifications. For more information, visit the Disability Services website at:

www.umt.edu/disability.

COVID POLICY

Your instructor is fully aware of the ongoing, worldwide pandemic taking place. While this course is currently scheduled to be taught in-person this semester, there are personal concerns and responsibilities regarding your health. Please stay safe, wash your hands, and maintain social distancing whenever possible. Per UM guidelines: **MASKS ARE REQUIRED IN CLASSROOMS REGARDLESS OF VACCINATION STATUS.** Masks can be easily picked up for free at many offices across campus, including Student Success (Main Hall 022), deans' offices, the University Center, and the Curry Health Center.

*If you are unable to wear a mask, please contact your academic adviser or the Office for Disability Equity (if appropriate) to discuss alternative options immediately. Students who fail to wear masks will be dismissed from the class and may face a disciplinary hearing through the Office of Community Standards.

Additionally, please be sure to be mindful of your mental health—we are all struggling right now, so be as kind as possible and recognize that no one is in an ideal situation (this goes for your classmates, fellow UM students, and your professors!). Should you or someone in your household become sick, please alert your instructor to ensure they are able to advise you regarding course materials and

progress. Other extenuating circumstances are understandable, and indeed expected, but *prompt and active communication* is key to making sure your needs are taken care of.

If there is any cause for concern, please email or set up an appointment to talk with your instructor in order to ensure that your needs are being met. I am here to aid you in succeeding in this course, even if there is a lot going on in the world around us all!

Keep up to date on UM's COVID-19 information here:

<https://www.umt.edu/coronavirus/>

Student Supports for Online and Remote Learning

Supports are available for many facets of student life: academic, staying connected, and personal well-being. The following are resources, strategies, and links for students. [Keep on Learning](#) provides strategies for supporting students for online and remote learning and the Student Resources tab at the [Moodle home page](#) provides links to updated resources as well.

Academic Support

- [Advising Center](#) and [Tutoring Resources](#): Schedule advising or tutoring appointments, available online or by phone. Tutoring available for math, writing, public speaking, Study Jam groups, and TRiO services.
- [Office for Disability Equity](#): Ensures students receive appropriate accommodations, services, and assistance to fully access the campus programs and facilities.
- [Writing and Public Speaking Center](#): Provides help at any point with writing, presentation, and research projects. Online and in-person appointments available.
- [Office for Student Success \(OSS\)](#): Helps students to meet three goals: transition smoothly to college, remain enrolled and progress in a program of study, and graduate in a timely manner.
 - [OSS COVID-19 Website](#)
 - Download the OSS [Online Student Success Guide](#) or [condensed Student Success Checklist](#)

Technical Support

- The UM IT Help Desk is available to provide technical support from 8AM-5PM, M-F.
 - For help with email, UMBox, Zoom, or other technical issues:
 - Call 406-243-HELP
 - Submit a ticket by emailing ithelpdesk@umontana.edu or by filling out the [General Help/Questions request form](#).
 - For help with Moodle:
 - Call 406-243-HELP
 - Submit a ticket by emailing umonline-help@umontana.edu or by filling out the [Moodle Help request form](#).
 - View [UM IT's Self-Help Articles](#).

Communication and Staying Connected

- [The Branch Center](#): A space dedicated to promoting respectful and collaborative dialogue, programming, and resources, in an effort to foster understanding, support, and inclusion for underrepresented students.
- [University of Montana app](#): Download to stay connected! There is an updated virtual events and activities tab to keep you connected to your fellow Grizzlies. It is available for download on the [iPhone App Store](#) or [Google Play](#).
- [Join UM-alerts](#): Subscribe by texting "Join UM-alerts" to 30890. Signing up for these alerts will inform participants, via direct text message, of immediate safety and health notices. [The University of Montana's Emergency notification system](#) will also transmit an email with emergency information to all 'umontana' e-mail addresses.
- Look for the UM Student Weekly Events every Monday in your UM email.
- Stay informed with [UM Events](#) and [UMNews](#).
- Get involved! Use [Griz Hub](#) to stay connected to the campus community.

Personal Wellness Supports

- [Curry Health Center](#): Provides quality, affordable, accessible health care for students.
 - Call (406) 243-2122 to schedule a tele-health appointment with medical or counseling
 - [Be Well at Home](#)
 - [What to do if I think I have been exposed to COVID-19?](#) (scroll down the page)
- [Campus Rec](#): Keep up with your fitness workouts! Check out the Campus Rec website for modified hours and classes available.
- [University of Montana Emergency Student Support Fund](#): Established to help enrolled students with unexpected crisis or hardship created by COVID-19.
- [UM Food Pantry](#): Currently providing free meal kits and hygiene products for students, staff, faculty, and community members.

COURSE SCHEDULE
(Subject To Revision)

Week	Date	Topic
1	1/19	Introduction, Syllabus, Terms, Bone Biology
2	1/24	Cranium
	1/26	
3	1/31	Cranium
	2/2	
4	2/7	Quiz #1
	2/9	Mandible & Deciduous Dentition
5	2/14	Adult Dentition
	2/16	
6	2/21	NO CLASS
	2/23	Quiz #2
7	2/28	Thorax
	3/2	
8	3/7	Thorax
	3/9	
9	3/14	Thorax
	3/16	Quiz #3
10	3/21	SPRING BREAK
	3/23	
11	3/28	Appendicular Skeleton
	3/30	
12	4/4	Appendicular Skeleton
	4/6	
13	4/11	Appendicular Skeleton
	4/13	
14	4/18	Quiz #4
	4/20	Biological Profile
15	4/25	Biological Profile
	4/27	
16	5/2	Open Lab
	5/4	Open Lab Writing Assignment DUE!
Finals	5/12 (Thursday)	FINAL EXAM 10:10am - 12:10pm SS 250