

ANTHROPOLOGY 412: OSTEOLOGY

Fall 2017 M/W/F 10:00-10:50AM

Instructor: Dr. Kirsten A. Green
Office: SS 217
Email: kirsten.green@umontana.edu
Office Hours: M/W/F 1:00-4:00pm
Tuesday & Thursday by appointment

This course meets Monday, Wednesday, & Friday from 10:00-10:50am in room SS250. External Lab hours will also be REQUIRED.

Prerequisites: ANTY 314, or faculty 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. 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 are two required texts and one recommended text for this course. Additional required and supplemental course readings will be available through Moodle or provided in class.

Required Texts:

White, Tim D. and Pieter A. Folkens
2005 Human Bone Manual. Academic Press: San Diego, CA. ISBN-13: 978-0-12-088467-4

Bass, William M.

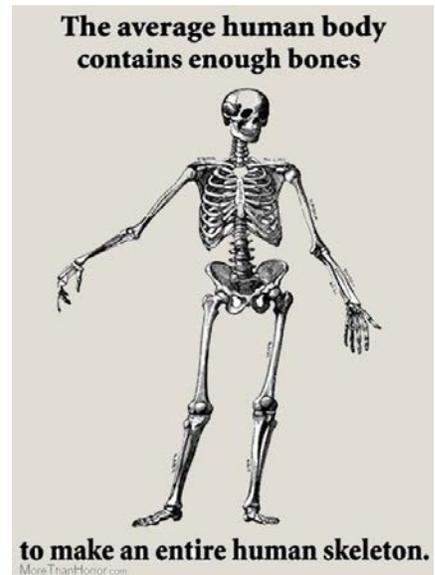
1971. Human osteology: a laboratory and field manual of the human skeleton.

Optional Texts:

Stone, Robert J., and Judith A. Stone.
2003 Atlas of skeletal muscles. McGraw Hill.

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 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. Also, do not articulate the mandible and maxilla unless there is foam padding in-between. Please 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 bottle with closed lids will be allowed in the lab. Please **turn off 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 Proctors which will be introduced during the first class. Attendance will be taken via a sign in sheet, for each lab. While over 2 hours of lab is not required, it is the experience of this instructor that the more hours spent in lab the better grades you will likely get on the tests.

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 40 classes total for the semester. One point per class will be given for attendance with two allowed missed classes the total for class attendance is 38 points/classes.

Lab hours (2 per week): There are 16 weeks of class total. Not including Thanksgiving break, as well as the first and last weeks of class, there is a total of 14 weeks where lab hours will count toward your grade.

4 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 samples will be available for study before the quiz, but I reserve the right to use any samples 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 December 11th. 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 samples will be available for study before the final, but I reserve the right to use any samples 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), and using the plus/minus system. 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 (38 classes)	38
Attendance - Lab (14 weeks)	14
Total	327

Grades will be assigned as follows:

A = 90-100 % (249 – 327 points)

B = 80-90 % (261 - 248 points)

C = 70-80 % (228 - 260 points)

D = 60-70 % (196 - 227 points)

F = <60 % (<=195 points)

**COURSE SCHEDULE
(Subject To Revision)**

Date	Topic
9/1	Introduction, Syllabus, Terms, Bone Biology
9/4	NO CLASS
9/6	Frontal & Parietals
9/8	Occipital & Temporals
9/11	Sphenoid & Zygomatics
9/13	Maxilla & Facial bones
9/15	Quiz #1
9/18	Deciduous dentition
9/20	Deciduous dentition
9/22	Adult dentition
9/25	Adult dentition
9/27	Adult dentition
9/29	Quiz #2
10/2	Hyoid & Sternum
10/4	Clavicle & Scapula
10/6	Ribs
10/9	Cervical verts
10/11	Thoracic verts
10/13	Lumbar verts
10/16	Sacrum & coccyx
10/18	Pelvis
10/20	Quiz #3
10/23	Humerus
10/25	Radius
10/27	Ulna

10/30	Carpals
11/1	Metacarpals & Phalanges
11/3	Femur
11/6	Tibia & Fibula
11/8	Tarsals
11/10	NO CLASS
11/13	Metatarsals & Phalanges
11/15	Review & open lab
11/17	Quiz #4
11/20	Review & open lab
11/22	NO CLASS
11/24	NO CLASS
11/27	Age
11/29	Sex
12/1	Stature & measurements
12/4	Ancestry
12/6	Pathology & Trauma
12/8	Human vs. Non-human
12/11	Open Lab – Writing Assignment Due!
12/13	Reading day – NO CLASS
12/15	FINAL EXAM 8:00-10:00am SS 250