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ANTY 412.01: Osteology

Corey Ragsdale

University of Montana, Missoula, corey.ragsdale@umontana.edu

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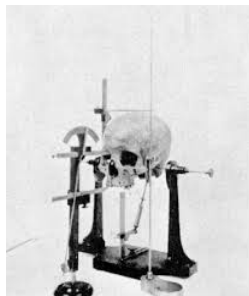
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Anthropology 412

Human Osteology



Instructor

Dr. Corey Ragsdale

Office: Social Sciences Room 217

E-mail: corey.ragsdale@umontana.edu

Office hours: Monday and Wednesday 1:00-2:30 pm, and by appointment.

Course Objectives:

This course will familiarize students with the anatomy of the human skeleton. This includes a basic understanding of the biology and chemistry of bone and teeth, growth and development, and changes to bones and teeth through genetic and environmental processes. An important element of this course includes how physical anthropologists collect, analyze, and interpret data using the human skeletal system.

Readings

White, Tim D, Black, Michael T., and Folkens, Pieter Arend, 2011. Human Osteology, 3rd Edition. San Diego: Academic Press. **(TEXT)**

Bass, William M. 2005. Human Osteology: A Lecture and Field Manual, 5th edition. Columbia, MO: Missouri Archaeological Society.

Optional/Recommended Reading

Stone, Robert J. and Stone, Judith A. 2006. Atlas of Skeletal Muscles, 5th edition. McGraw Hill.

Moodle and e-mail. Course materials will be posted on Moodle (<http://umonline.umt.edu>). Students are responsible for accessing these materials regularly. I will communicate with the class during the term via e-mail. All students are required to have a UM e-mail account and to check it regularly. Please do not hesitate to e-mail us with questions or comments during the term.

Grading

Course grades will be calculated in the following way:

Quizzes (x5):	40%
Midterm Exams (x2):	40%
Final Exam:	20%

NOTE: attendance of the laboratory sessions is an extremely important part of the class. Life happens, and occasionally labs cannot be attended. However, it is unlikely life happens on a regular basis. Make-ups for quizzes exams are possible only under extenuating circumstances accompanied by written documentation.

The midterm and final exams will include practical, short answer, and/or multiple-choice components. The written components will be weighted heavily towards material presented in the lectures and readings. Quizzes will be practical.

General policies

1. Attendance is required.
2. All students must attend the three exams. Make-up exams will only be allowed with a valid written medical excuse.
3. Qualified students with disabilities needing appropriate academic adjustments should contact the Disability Services for Students (DSS). “Reasonable” means the University permits no fundamental alterations of academic standards or retroactive modifications. (For other options see <http://www.umt.edu/disability>).
4. Academic dishonesty will be dealt with in accordance with university policies.
 - **Cheating** on exams will result in an F in the course.
 - **Plagiarism** is a form of cheating. It is defined in the Macmillan Dictionary as “the process of taking another person’s work, ideas, or words, and using them as if they were your own.” If you plagiarize any assignment, you will receive a zero for the assignment and an F in the course. We are experts at detecting plagiarism.
5. Students must retain all material distributed in class and online. It is especially important that students retain all graded assignments. If a student has a grade dispute, he/she will be required to produce the disputed graded assignment(s).

Lab Hours

Day	Time	Preceptors
Monday	4:00 to 5:00 pm	Erin Michalak
Tuesday	9:00 am to 12:00 pm	Brittney Eubank, Ariane Thomas
Wednesday	4:00 to 5:00 pm	Erin Michalak
Thursday	9:00 am to 12:00 pm	Julia Schorr, Ariane Thomas
Friday	11:00 am to 1:00 pm	Megan Richardson

Course Schedule

- Week 1 (8/31-9/4): Introduction to the Course
Overview of Anatomical Terms and Motions
- TEXT: Chapters 1 and 3
- Week 2 (9/7-9/11): NO CLASS 9/7 LABOR DAY
Skeletal Microstructure and Growth
Skeletal Microstructure and Growth (continued)
- Quiz 1: Anatomical Terms/Motions (TUESDAY 9/9)
 - Readings: Kerley, "The microscopic determination of age in human bone"
 - TEXT: Chapter 2
- Week 3 (9/14-9/18): Ethics in Osteology
NO CLASS 9/16*
The Skull
- TEXT: Chapters 16 and 4
- Week 4 (9/21-9/25): Skull (cont.)
Dentition
- TEXT: Chapters 4 (cont.) and 5
 - Quiz 2: The Skull –part one- (MONDAY 9/28)
- Week 5 (9/28-10/2): Vertebrae and Thorax
Shoulder Girdle
- TEXT: Chapters 6, 7, and 8
- Week 6 (10/5-10/9): The Arm
Review for Exam #1
- Midterm Exam # 1 (FRIDAY 10/9)
 - TEXT: Chapter 9
- Week 7 (10/12-10/16): The Hand
The Pelvis
- TEXT: Chapters 10 and 11
- Week 8 (10/19-10/23): The Leg
The Foot
- Quiz 3: The Pelvis (MONDAY 10/19)
 - TEXT: Chapters 12 and 13
- Week 9 (10/26-10/30): The Foot (cont.)
Review for Exam #2
- Midterm Exam #2 (FRIDAY 10/30)
 - TEXT: Chapter 13 (cont.)

- Week 10 (11/2-11/6): Determination of Age
 Determination of Sex
 Determination of Stature
- Sutter, “Nonmetric Subadult Skeletal Sexing Traits: A Blind Test of the Accuracy of Eight Previously Proposed Methods Using Prehistoric Known-Sex Mummies from Northern Chile”
 - Auerbach and Ruff, “Stature estimation formulae for indigenous North American populations”
 - TEXT: Chapter 17, 17.1-17.5
- Week 11 (11/9-11/13): Ancestry Estimation
 NO CLASS 11/11 VETERAN’S DAY
 Cranioetrics
- **Quiz 4: Determination of Age and Sex (MONDAY 11/9)**
 - Hefner, “Cranial Nonmetric Variation and Estimating Ancestry”
 - TEXT: Chapter 17, 17.6
- Week 12 (11/16-11/20): Paleopathology
- Armelegos et al, “A Century of Skeletal Biology and Paleopathology: Contrasts, Contradictions, and Conflicts”
 - TEXT: Chapter 18 and 20, 20.3-20.4
- Week 13 (11/23-11/27): Dental Anthropology
 NO CLASS 11/25-11/27: THANKSGIVING BREAK
- Hillson, “Dental Anthropology”.
- Week 14 (11/30-12/4): Forensic Anthropology
 Bioarchaeology
 Film: Written in Bone (FRIDAY 12/4)
- **Quiz 5: Dental Anthropology (MONDAY 11/30)**
 - Buikstra, "Out of the Appendix and into the dirt"
 - Ubelaker, "Skeletons testify: Anthropology in forensic science"
 - TEXT: Case Studies from Chapters 22-25
- Week 15 (12/7-12/11): Processing and Curating Human Remains
 Review for Final Exam
- **FINAL EXAM TBD**

*This schedule is subject to change, and may be adjusted as the term progresses.