

**Anthropology 534: Human Osteology**  
**Spring 2009**  
 TuTh 1:30-2:45, STON 217

Instructor:	<b>Dr. Michele Buzon</b>
Office Hours and Location:	<b>Tu 10:30-11:30, STON 310, or by appt.</b>
Email address:	<b>mbuzon@purdue.edu</b>
Course web page:	<b><a href="http://www.itap.purdue.edu/tlt/blackboard/">http://www.itap.purdue.edu/tlt/blackboard/</a></b>

**Course Description:**

This course is an in-depth study of the human skeleton as a dynamic, living system. We explore the human skeleton as a means of reconstructing past lives. Each bone will be examined with a review of normal and abnormal variations. In the course of this examination we will cover bone biology, development and anatomy, and various applications of osteological methods such as aging, sexing, biological affinities, and paleopathology.

**Required Texts:**

- Tim D. White and Pieter A. Folkens. 2005. *The Human Bone Manual*. Academic Press
- Clark Spencer Larsen. 1997. *Bioarchaeology*. Cambridge University Press.
- Articles on the course's Blackboard web site

**Grade Assessment:**

Attendance and participation including discussion topics	15%
Quizzes (4x10%)	40%
Lab exercises (4x5%)	20%
AAPA Assignment	5%
Annotated bibliography paper Topic (2%) Preliminary bibliography (3%) Final paper/present. (15%)	20%

**Letter Grade Assignment:**

\*grade percentages will not be rounded up

Percent range	Letter grade
93-100%	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-67	D
60-62	D-
0-59	F

**\*No assignments will be accepted late or by email\***

**By remaining registered in this course, you agree to the terms of this syllabus.**

**Student Responsibilities:**

Regular, on-time attendance is **mandatory**. Attendance will be taken at every class meeting and you are expected to stay for the entire class. Be prepared for class by reading what is assigned for the class meeting. Please come ready to contribute to the discussion of course topics. Your attendance/participation grade will be based on your attendance in class, your participation in class discussion and activities, and your discussion topics. You are required to turn in a short (3 paragraphs) discussion of interesting topics for each non-anatomy topic day (5, marked on schedule). These topics should be based on reading in Larsen and articles on Blackboard.

It is necessary for you to **always bring your textbook**, *The Human Bone Manual*, for every class meeting. Students are responsible for their own note taking. Lecture notes will not

be given to students who miss class. I strongly suggest not missing class – it is the only opportunity you have to study skeletal material for the quizzes.

Quizzes: There will be four practical quizzes in this course, each worth 10%. Quizzes will be administered at the beginning of class and are timed. Each quiz will consist of bone identification, identification of diagnostic features on human bones including side, description of bone physiology where appropriate and demonstration of understanding of osteological methods. **There will be no make-up quizzes.**

Lab exercises: There will be four lab exercises in this course, each worth 5%. Lab exercises will focus on practicing osteological methods and techniques presented during lecture. Lab exercises will be handed in at the end of the class meeting. **There will be no make-up lab exercises.**

AAPA Assignment: On the Blackboard course website, a file containing the American Association of Physical Anthropology annual meeting presentation abstracts is provided. Students will examine the presentation abstracts and prepare a written discussion of 5 abstracts on a particular topic of osteological analysis and how they relate to what we've learned and discussed in the course. There will be no class during the week of these meetings (Mar 31 & Apr 2). This assignment will be due **Apr 2 by 4pm** to the Anth office. **Late assignments will not be accepted.**

Annotated bibliography paper: The goal of this paper is a review of modern scholarship relating to a particular topic concerning osteology. Topics must be approved by me in advance – you will turn in a one paragraph description of your topic to me on **Feb 5**. Then, on **Mar 24**, you will turn in a preliminary list of 10 sources. *American Journal of Physical Anthropology* citation style must be used for this list and the final paper (citation style will be provided on Blackboard website). **Website/Internet sources are not acceptable.**

The paper will be composed of three parts. 1. Introduction (1-2 pages): summarize your reason for choosing the topic, what you expected to find on the topic and how your research has informed your view of the topic. 2. Body: each reference should consist of 2-3 paragraphs that state the author's purpose and conclusions, and how the source has advanced your understanding of the topic. 3. Conclusion (1-2 pages): summarize your view on the state of the scholarship on the topic and suggest possibilities for future research in this area. The paper must be double spaced, use a 12 point font, have 1" margins, and have page numbers. The final annotated bibliography paper is **due at the beginning of class on April 28**. You will be required to briefly present (~5-10 min) your findings to the class on **Apr 28 or Apr 30**. **Late assignments will not be accepted.**

**Campus emergency:** In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. Here are ways to get information about changes in this course: Blackboard Vista web page and my email address: mbuzon@purdue.edu

**Students with disabilities:** In order to request disability services, a student must register with Disability Resource Center (<http://www.purdue.edu/odos/drc/about.html>) and provide documentation of his or her condition. The documentation must be prepared by a licensed healthcare professional and must include specific guidelines. Once documentation is received,

an Adaptive Programs specialist is responsible for evaluating the information and making an eligibility determination. If eligible, accommodations are determined on an individual basis.

**Counseling and Psychological Services:** <http://www.purdue.edu/CAPS/>

**Academic Dishonesty:** “The commitment of the acts of cheating, lying, stealing, and deceit in any of their diverse forms (such as the use of ghostwritten papers, the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest. Existing portions of the Regulations Governing Student Conduct, Disciplinary Proceedings and Appeals (Section III-B-2), should be interpreted as including the above acts and should be exercised in cases where the weight of evidence warrants such actions.”

**Anthropology majors:** please remember to keep clean copies of all of your written assignments for your anthropology portfolios. During your final semester, you will compile a portfolio of your significant written work in anthropology and from other courses, too, if you wish. Bind these selections topped by duplicate copies of the table of contents (indicating course and semester), and submit the portfolio to the anthropology secretary at least a month before graduation. The portfolio will be returned for your archives. The department's website provides further information about the portfolio requirement and exit interview.

### **Rules for Use of Skeletal Material**

Students must work quietly in small groups and show respect to others doing work.

Each student will be assigned to a group and a specific skeleton.

Each group is responsible for their assigned skeleton.

Each skeleton has been inventoried and analyzed, therefore, any theft, damage, or alteration will be noted.

Accidental damage must be reported immediately.

Skeletal material IS NOT allowed out of the classroom.

**Failure to comply with ANY of these rules will result in the student's relinquishing their right to use human skeletal material for studying purposes.**

## Class Topics and Reading Assignments

Date	Class Topic	Reading
Jan 13	Introduction, course topics, lab procedures, anatomical terms	WF 1,6
Jan 15	Bone composition/structure, functions	WF 4
Jan 20	Growth development and remodeling, histology	L 1
Jan 22	<b>Lab 1</b>	
Jan 27	The cranium: frontal, parietal, occipital	WF 7
Jan 29	The cranium: temporal, zygomatic, maxilla, nasal	
Feb 3	The cranium: palatine, ethmoid, lacrimal, vomer, nasal conchae	
Feb 5	The cranium: sphenoid, hyoid, mandible <b>Ann bib topic</b>	
Feb 10	Video: <i>The Peasant Physician</i> (27min), study time	WF 8,19
Feb 12	<b>Quiz 1</b> ; dentition, aging techniques using the cranium	
Feb 17	Sexing techniques (cranium); <b>Lab 2</b>	
Feb 19	Biological affinities using the cranium <b>Disc</b>	L 9, A 1
Feb 24	<b>Lab 3</b>	
Feb 26	Diseases affecting the cranium <b>Disc</b>	WF 17, L 7, A 2
Mar 3	Vertebrae, ribs, sternum	WF 9-10
Mar 5	Diseases affecting the vertebrae and ribs <b>Disc</b>	L 5; A 3
Mar 10	<b>Quiz 2</b> ; clavicle, scapula, humerus, ulna, radius	WF 11-12
Mar 12	Carpals, metacarpals, phalanges	WF 13
Mar 17	<b>SPRING BREAK</b>	
Mar 19	<b>NO CLASS</b>	
Mar 24	<b>Quiz 3</b> ; Limb growth and malformations <b>Prelim bib due</b>	L 3,6
Mar 26	Innominate, femur, patella, tibia, fibula	WF 14-15
Mar 31	AAPA – no class	
Apr 2	<b>AAPA assignment due (give to Anth secretary by 4pm)</b>	
Apr 7	Aging and sexing (pelvis), height <b>Disc</b>	A 4
Apr 9	Video: <i>Secrets of the Bog People</i>	WF 16
Apr 14	<b>Lab 4</b>	
Apr 16	Tarsals, metatarsals, phalanges	
Apr 21	Activity patterns and trauma <b>Disc</b>	L 4; A 5
Apr 23	<b>Quiz 4</b> Taphonomy and ethics	WF 2,3,5; L 10
Apr 28	Presentations <b>Annotated Bibliography Paper due in class</b>	
Apr 30	Presentations	

WF= White and Folkens, *The Human Bone Manual*

L= Larsen, *Bioarchaeology*

A= articles on Blackboard web site

**\* All readings must be completed before class\***

**Reading loads vary by day - use your lighter days to read ahead!!**

**The schedule of lecture topics is subject to change.**