

COURSE # FORS 3420
HUMAN OSTEOLOGY: ANALYSIS OF HUMAN BONE
FALL 2017

PROFESSOR: Dr. Joan A. Bytheway

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CLASS HOURS: MW 11-12:20pm

CLASSROOM: CJC104/Piney Woods Lab, Center for Biological Field Studies

OFFICE HOURS: MWF 8-9, MW 1-3 pm or by appointment

DATES	READINGS & EXERCISES	OUTLINE OF TOPICS
August 23		Syllabus and administrative issues
August 28	Chapter 1	Understanding Human Osteology: Working with Human Bones
August 30	Chapter 1	Human Bone and Dentition Identification/Terminology
September 4		LABOR DAY. SCHOOL CLOSED
September 6	Chapter 3	The adult axial and appendicular skeletons
September 11		QUIZ 1
September 13	Chapter 4	Bone Biology: Skeletal Growth and Development Lab: The Calvarium: Frontal, parietal, temporal, occipital bones
September 18	Chpters 4 & 5	The Human: In Utero to Juvenile skeleton
September 20		Secular trends, normal bone and non-metric variants Lab: Maxilla, teeth, zygoma, mandible
September 25	Chpters 6-8	Fragmented Cranial Bones
September 27		EXAM 1 Written and Practical
October 2		Joint types Lab: Lacrimal, ethmoid, sphenoid, nasal, palatine, vomer
October 4		Fragmented postcranial remains Lab: Hyoid, vertebrae, ribs, clavicle, scapula
October 9		QUIZ 2
October 11	Chpters 9 & 10	Bone Pathology: Congenital bone diseases Lab: Humerus, radius, ulna, carpals, metacarpals, phalanges
October 16	Chapter 10	Bone Pathology: Joint, Dental, and Infectious Disease
October 18	Chapter 10	Bone Pathology: Joint, Dental, and Infectious Disease Lab: Sacrum, coccyx, os coxae
October 23		Review for exam
October 25		EXAM 2 (cumulative) Written and Practical
October 30		Osteometry: Measurements from In Utero bone to the adult skeleton Lab: Femur, patella, tibia, fibula, tarsals, metatarsals, phalanges
November 1		Osteometry: Measurements from In Utero bone to the adult skeleton
November 6		General Bone Trauma, Mechanostat Theorem, forces and types of fractures
November 8		General Bone Trauma, Mechanostat Theorem, forces and types of fractures

November 13		General Trauma - Post/Peri/Ante - mortem trauma
November 15		Blunt Force Trauma
November 20		QUIZ 3
November 22		THANKSGIVING BREAK. NO CLASS.
November 27		Sharp Force Trauma
November 29		Projectile Trauma & Thermal Trauma
December 6		FINAL EXAM 12:00-2:00 PM

TEXTBOOK(S): Human Osteology 3rd Edition Tim D. White and Pieter A. Folkens, Academic Press
ISBN 978-0-12-746612-5

COURSE DESCRIPTION: This course is the prerequisite for the CRIJ 4420 Forensic Anthropology course. This course introduces the student to the human skeletal system. The course will cover the function of bones and their structure. It will include the growth and development of human bone and the distinction between in utero, juvenile and adult skeletal elements. Muscle origin and insertion points on bone will be examined as well as the various types of joints. The course is designed to equip the student with a thorough knowledge of the normal appearance of the human skeleton and its variation caused by population variation, genetic disorders, diseases, or trauma.

COURSE OBJECTIVES:

1. To gain knowledge of the contemporary human skeletal system.
2. To thoroughly understand, through hands on experience, what normal bone growth and bone degeneration looks like.
3. To understand how pathology and trauma can alter the human skeleton.
4. To integrate methodology of examining human bone with practical application.
5. To introduce new anatomical and osteological terms to aid in the comprehension of human osteology.

COURSE REQUIREMENTS:

No prerequisite.

GRADING:

20% First Exam
25% Second Exam
15% Quizzes/Exercises/assignments
10% Attendance and participation
30% Final Exam

GRADING SCALE

A=100-90
B=89-80
C=79-70
D=69-60
F=59-below

EXAMS ARE CUMULATIVE.

Be prompt for exams. Tardiness for taking the exam will not be tolerated.

If late, without prior notification, you will not be permitted to take the exam.

MAKE-UP EXAMS: Exams are practical. There will be NO makeup practical exams. Written makeup exams will only be permitted with documented medical emergencies. If there is an emergency on exam day, please call or e-mail as soon as possible.

UNIVERSITY ATTENDANCE POLICY

It is the policy of Sam Houston State University (800401) that students attend class regularly and are punctual. University policy allows students to miss 3 hours of class. Please see me if you anticipate exceeding the 3 allotted class hours.

INSTRUCTOR'S CLASSROOM ATTENDANCE POLICY

Class attendance will be quantified by the number of days your signature is on the attendance sign-in sheet. Forgery of your signature is a crime and can result in expulsion from the university. You will receive 1 point for each class attended. If you are late to class and miss attendance, you will not receive that day's attendance point, so be on time for class. If you anticipate running late, please notify me or the TA prior to the particular class day. Also, if you sign in and then leave class early, without prior approval, you will lose the class point. Attendance and class participation constitute 10% of your grade.

CLASSROOM ETIQUETTE

The use of cell phones (including text messaging), laptops, I-pods, tablets, etc. is not permitted *during class lecture*. Make sure electronic devices are turned off during this time.

Please review the University's policy for electronic devices.

http://www.shsu.edu/~vaf_www/aps/documents/100728.pdf

Assignments are turned in on the due date. Any late assignments automatically lose ½ of the assignment points.

All materials in class, e.g. handouts, readings, movies, exercises may be included on exams.

It is your responsibility to obtain any class materials you miss.

STUDENT ACADEMIC POLICIES concerning Attendance, Academic Honesty, Disabled Student and Services for Disabled Students, and Absences on Religious Holy days may be found at:

<http://www.shsu.edu/dept/academic-affairs/aps/aps-students.html>