ANT 3520 (online)

Skeleton Keys: Introduction to Forensic Anthropology Fall 2022

Instructor: Emily R. Bartz

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Office Hours:

Course Objectives:

***Some lectures will include disturbing and graphic images. Consider your reaction to this material before taking this course. You will be responsible for all course material. ***

This course provides an introduction to the field of forensic anthropology. Forensic anthropology is an applied area of biological anthropology that focuses on the identification of human skeletal remains in a medicolegal context. This course will introduce you to basic terms and principles of forensic anthropology, focus on concepts and their applications, and present case histories. This is not intended to be a "how-to" course but a general overview of the discipline. Upon completion of this course, you should be able to:

- Define the field of forensic anthropology and its purview.
- Have a general understanding of human osteology.
- Understand the basic concepts underlying determination of the biological profile, including sex, age, ancestry, and stature.
- Describe different types of skeletal trauma, and different antemortem trauma, perimortem trauma, and postmortem damage.
- Understand the practical applications of forensic anthropology and the profession of the field.

Course Topic Structure:

To meet the above-stated objectives, the course is structured in a series of 16 modules. Each module is structured to contain lecture video material, requires weekly reading from the Bare Bones text, and has graded assignments linked to the module topic. These modules are partitioned into four main sections:

- 1) Introduction to the Course and Forensic Anthropology;
- 2) The Biological Profile and Personal Identification;
- 3) Skeletal Trauma and Burned Bones; and
- 4) Applications and the Profession of Forensic Anthropology

Section 1: Introduction to the Course and Forensic Anthropology

The first two modules describe the field of forensic anthropology – historically and the current science – as well as the larger medicolegal system. In this section, the purpose and the place of forensic anthropology within this larger system will be described. The third and fourth modules more specifically describe the duties of the forensic anthropologist in the field and in the laboratory. Module 5 focuses on taphonomy, which discusses the variety of processes that can alter the body after death, such as decomposition.

Section 2: The Biological Profile and Personal Identification

The sixth module (osteology and osteometry) introduces a much more nuanced look into the anatomy of human bones. The sixth module lays the foundation of the remaining modules in this section, as forensic anthropologists analyze the variation of the human skeleton to help identify individuals, which can be done using the biological profile – basically, a list of an individual's biological demographic descriptors

consisting of their sex, age, ancestry, and stature – as well as idiosyncratic skeletal features. Aspects of the biological profile and how we can recognize these aspects in the skeleton are covered in Modules 7 through 10. Idiosyncratic skeletal features and how they are used to personally identify an individual from their skeletal remains are the topic of Module 11, and Module 12 shows how forensic art can aid personal identification efforts.

Section 3: Skeletal Trauma and Burned Bone

While Section 2 shows how forensic anthropologists can interpret features of the skeleton to assist with the identification of human remains, Section 3 (Modules 13 and 14) discusses additional, important tasks of the forensic anthropologist: interpretation of skeletal trauma and burned bone. The interpretation of skeletal trauma and burned bone can help answer important questions such as: What happened to this individual? When did it happen – before they died, or around the time of death? What sort of implement may have caused the injury to bone?

Section 4: Applications and the Profession of Forensic Anthropology

The final section of this course is presented in Modules 15 and 16 with discussions of the application of forensic anthropology in various contexts (such as with responses to mass fatalities, human rights investigations, and recovering/identifying the remains of the war dead) and the potential, various career paths that forensic anthropologists may pursue.

Course Materials:

Required: Warren MW et al. 2011 Bare Bones: A Survey of Forensic Anthropology. 2nd edition. Kendall-Hunt Publishing.

Additional readings may be provided by the instructor and posted on Canvas.

Grade Distribution:

Final grades will be calculated as a percentage of the total available points as follows:

A	93% - 100%	B-	80% - 82%	D+	67% - 69%
A-	90% - 92%	C+	77% - 79%	D	63% - 66%
B+	87% - 89%	C	73% - 76%	D-	60% - 62%
В	83% - 86%	C-	70% - 72%	Е	59% or less

Grades ending in a fraction of a percentage point will be rounded to the nearest whole number (ex. A grade of 89.6 becomes a 90.0). Should you have questions, please feel free to consult the University of Florida's current grading policies and procedures at the following website: https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/

Course Mechanics:

Because this is an online class, students are expected to be self-motivated. During the sixteen week period the class is in session there will be sixteen modules with one a week – excepting the first week, in which you have an introductory module to the course and Canvas along with Module #1. Assignments from the first week of the course will be due with assignments from the second week of the course to accommodate those who add the course late during the drop/add period. All other assignments for the modules must be completed during the week they are

assigned and will be due each Friday at 11:59 p.m. Eastern Time (ET) except for discussions (see below), **DON'T wait until the last minute to complete the assignments.**

The instructions and materials needed for each assignment can be found under the relevant module. Please make sure you read the syllabus and familiarize yourself with Canvas. Students are responsible for all the material in each module and need to view all links posted on the course's website (e.g., lecture videos, films, articles). All of the material is fair game when it comes to quizzes, discussions and activities.

Assignments:

You will have 1-3 online assignments per module, all of which are associated with each the content presented in each module. To facilitate self-motivated distance learning, all work for a week's given modules must be completed during the seven-day window for that week (from 8:00 am Saturday through 11:59 pm ET Friday).

There is one quiz for each of the sixteen modules. Each quiz is multiple choice and worth 10 points (160 total points). The quizzes make up 47% of your grade. Quizzes are due by **Friday at 11:59 p.m. ET** of the week they are assigned.

Students will also need to complete ten online activities. This averages less than one activity per week. The activities range from 5 to 10 points (79 total points) and are worth 23% of the total grade.

There will be 6 discussion topics throughout the semester. Student must post a substantive, original comment to the discussion by **Wednesday at 11:59 p.m. ET** (worth 5 points). They must then make two substantive responses to other individual's comments by **Friday at 11:59 p.m. ET** (worth 2.5 points each, totaling 5 points). This means there are 6 original comments and 12 responses (60 total points). Participation in these discussions is worth **18%** of the final grade.

There will be a cumulative final exam administered online. You must complete this by the indicated date. This exam covers material from the entirety of the course, is worth 40 points, and is 12% of the final grade.

There may be opportunities for extra credit at the discretion of the instructor.

Online Attendance and Late Policy:

Assignments must be turned in by 11:59 ET on Fridays for full credit. No late work will be accepted and the student will be given a zero.

For the discussion topics, the original Discussion is due by Wednesday at 11:59 ET. One point will be deducted for each day that is late. All assignments for a given week must be submitted by the Friday deadline unless otherwise specified, or due to a holiday for that week. No late work will be accepted, and the student will receive zero credit (there is no partial credit). Only students with DOCUMENTED excused absences may turn in work after the Friday deadline, including quizzes, discussions and activities. Students must notify the instructor at least 48 hours before the absence or excuse impeding work productivity.

University Honesty Policy:

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code - https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/ - specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Cheating and plagiarism, intentional or otherwise, during the course will not be tolerated. Students found cheating will receive a score of zero (0) points for the assignment. Disciplinary action will follow university policy as outlined by the Dean of Students. I advise that you visit this website – https://www.img.ufl.edu/wiki/images/Plagiarism.pdf - for a guide on how to avoid plagiarism. However, if you are not sure if something is plagiarism, please ask!

Materials and Supplies Fees:

Students enrolled in this online course will incur a \$105 M&S fee.

Accommodations:

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting https://disability.ufl.edu/students/get-started/. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Counseling and Wellness Center:

U Matter, We Care: Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit - https://umatter.ufl.edu/ to refer or report a concern and a team member will reach out to the student in distress. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: Visit https://counseling.ufl.edu/ or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need or visit https://shcc.ufl.edu/.

University Police Department: Visit police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; https://ufhealth.org/emergencyroom-trauma-center.

Academic Resources:

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via email at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services https://career.ufl.edu/.

Library Support: http://cms.uflib.ufl.edu/ask various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring https://teachingcenter.ufl.edu/

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers https://writing.ufl.edu/writing-studio/

Student Complaints On-Campus: http://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/

On-Line Students Complaints: http://distance.ufl.edu/student-complaint-process/

Schedule

please note: week's 1 and 7 consist of more than one module

	Dates of Access	Topic	What to Read	What to Watch	What is Due	
	"5	Start Here" Module:	Introduction to th	e Course and Canv	as	
	Week 1:	Introduction and	Syllabus "Start	Canvas Overview	1) Syllabus Quiz	
	Aug. 24 - 26	Ground Rules:	Here" Module	Video		
	and a	what to expect				
	The semester	from an online				
	begins	course; syllabus				
	Wednesday,	review; course				
	Aug. 24 th	policies Module 1: T	 he History of Fore	nsic Science		
	XX 1.1 ()				1) D: : 1	
g	Week 1 (cont.)	What is Forensic	Bare Bones	Lecture: What is	1) Discussion 1	
olo	Aug. 24 - 26	Anthropology?	Chapter 2	Forensic	2) Mod 1 Oviz	
rop				Anthropology	2) Mod 1 Quiz	
nth		History of		Lecture: History		
A		Forensic		of Forensic		
ısic		Anthropology at		Anthropology at		
rer		UF (and beyond!)		UF		
Fo						
and	Module 2: The Medicolegal System					
se	Week 2:	Medicolegal	Bare Bones	<u>Lecture:</u>	1) Mod 2 Quiz	
Bo	Aug. 29 – Sept.	Aspects of Death	Chapter 1	Medicolegal		
C	2			Aspects of Death	2) Activity1:	
th					Medico-legal	
1 to					matching exercise	
tior					CACICISC	
TION 1: Introduction to the Course and Forensic Anthropology	Module 3: Forensic Anthropology in the Field					
ıtro	Week 3:	Recovery of	1) Articles on	Lecture:	1) Discussion 2	
ıl.	Sept. 6 – 9	Human Remains I:	CSI effects	Recovery of	ŕ	
7		Site Location and	(online)	Human Remains	2) Mod 3 Quiz	
Ö	Sept. 5th is a	Site Survey		I		
	holiday		2) Bare Bones		3) Activity 2:	
SEC		Recovery of	Chapter 3	<u>Lecture:</u>	Recovery	
		Human Remains		Recovery of		
		II: Mapping,		Human Remains		
		Excavation, and Documentation		II		
		Documentation				
		Module 4: Forens	sic Anthropology in	n the Laboratory		
	Week 4:	Processing	1) Bare Bones	Lecture:	1) Mod 4 Quiz	
	Sept. 12 - 16	remains into	Chapter 3	Processing		
	_	Evidence	_	Remains into		
				Evidence		

		T -1	2)	T t			
		Laboratory	2)	Lecture:			
		Protocols,	Supplementary	Laboratory			
		Procedures, and	"Lab SOP"	Protocols			
		Quality Assurance	(online)				
		Module 5: Taphono	omy – from Biosph	nere to Lithosphere			
	Week 5:	What Happens	1) Bare Bones	Lecture: What	1) Mod 5 Quiz		
	Sept. 19 - 23	After Death?	Chapter 4	Happens After			
	•	Part I	2) Article: Stock	Death? Part I	2) Activity 3: Taphonomy		
		What Happens	et al. 2017	Lecture: What	Matching		
		After Death?		Happens After	Exercise		
		Part II	3) Practice	Death? Part II			
			Activity (online)		3) Discussion 3:		
					Taphonomy and		
					Forensics		
	N	 Iodule 6: Anatomy, 0	Octoology Massur	aments and Statisti	ec.		
	Week 6:	Skeletal Anatomy	1) Bare Bones	Lecture: Skeletal	1) Mod 6 Quiz		
	Sept. 26 - 30	and Osteology	Chapter 5	Anatomy and	2) A -4::4 A		
_		Ostasamastma	2) Prosting	Osteology	2) Activity 4:		
		Osteometry	2) Practice	Lecture:	Osteology		
Cal			Activity (online)	Osteometry	Matching Exercise		
					Exercise		
SECTION 2: The Biological Profile and Personal Identification	Module 7: Group Characteristics I: Biological Sex						
nal	Week 7:	Sexual	Bare Bones	Lecture: Sexual	1) Mod 7 Quiz		
[OS.	Oct. 3 - 7	Dimorphism,	Chapter 6	Dimorphism,			
Per		Birth, and		Birth, and			
<u> </u>		Locomotion		Locomotion			
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Eile		Methods of Sex		Lecture: Methods			
ro		Discrimination		of Sex			
al F				Discrimination			
ogica	Module 8: Group Characteristics II: Age-at-death						
Siol	XX 1 7 ()		-	ı	1) 1/4 10 0 :		
e E	Week 7 (cont.) Oct. 3 - 7	Estimating Age in	Bare Bones	Lecture:	1) Mod 8 Quiz		
F	Oct. 3 - 7	Children	Chapter 8	Estimating Age	2) A -4::4 5:		
Z 2:				in Children	2) Activity 5: Age Matching		
		Estimating Age in		<u>Lecture:</u>	Exercise		
Ę		Adults		Estimating Age			
EC				in Adults			
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		Methods of Age		<u>Lecture:</u> Methods			
		Methods of Age Estimation		of Age			

	Module 9: Gro	oup Characteristic	es III: Stature	
Week 8: Oct. 10 - 14	Living vs. Forensic Stature; Methods of Stature Estimation	1) Bare Bones Chapter 9 2) Article: Ousley 1995 (online) 3) Article: Jantz et al. 1995	Lecture: Stature	1) Mod 9 Quiz 2) Activity 6: Stature Exercise
Mod	dule 10: Group Chai	racteristics IV: "R	ace" Fact or Ficti	ion?
Week 9: Oct. 17 - 21	Race Fact or Fiction Clinal Variation and Population Affinities Determination of Ancestry: Do anthropologists cheat?	1) Bare Bones Chapter 7 2) PBS website 3) Sauer 1992	Lecture: "Race" Fact or Fiction? Lecture: Clinal Variation Lecture: Determination of Ancestry	1) Mod 10 Quiz 2) Activity 7: Sorting People Exercise 3) Discussion 4
Mod	lule 11: Individual C	Characteristics and	Personal Identifica	ntion
Week 10: Oct. 24 - 28	Individuating Skeletal Characteristics Ante and Postmortem Radiographic Comparison	 Bare Bones Chapter 10 Practice Activity 	Lecture: Individuating Skeletal Characteristics Lecture: Antemortem and Postmortem	1) Mod 11 Quiz 2) Activity 8: Radiographic Comparison Matching Exercise
	Personal Identification in Action		<u>Video:</u> Finding Anastasia	
	Mod	dule 12: Forensic	Art	
Week 11: Oct. 31 – Nov. 4	Forensic Reconstructions: Art or Science?	Bare Bones Chapter 11	Lecture: Forensic Reconstructions Video: Forensic Files Saving Face	1) Mod 12 Quiz 2) Discussion 5

		N	Iodule 13: Trauma	a		
d Bone	Week 12: Nov. 7-10 Dec. 11 th is a holiday	Trauma and Cause of Death: Ante- vs. Postmortem	1) Bare Bones Chapter 12 2) Article: Langley 2007	Lecture: Trauma and Cause of Death I	1) Mod 13 Quiz 2) Activity 9: Trauma Matching	
and Burne	j	Trauma and Cause of Death: Blunt- vs. Sharp-force		Lecture: Trauma and Cause of Death II	Exercise	
al Trauma		Trauma and Cause of Death: Ballistics and Gunshots		Lecture: Trauma and Cause of Death III		
kelet		Mo	odule 14: Crematio	on		
SECTION 3: Skeletal Trauma and Burned Bone	Week 13: Nov. 14 – 18 Nov. 23-25 is a holiday	Burned Bodies and Cremated Remains	Bare Bones Chapter 13	Lecture: Burned Bodies and Cremated Remains	1) Mod 14 Quiz 2) Activity 10: Cremation Artifact	
S	·	What Survives Cremation?		Lecture: What Survives Cremation?	Identification Exercise	
	Module 15: Mass Fatalities					
	Week 14: Nov. 28 – Dec. 2	Mass Fatality Case History I: ValuJet Flight	Bare Bones Chapter 14	Lecture: Mass Fatality Case History I	1) Discussion 6 2) Mod 15 Quiz	
and Profession		Mass Fatality Case History II: World Trade Center		Lecture: Mass Fatality Case History II		
SECTION 4: Applications a		Mass Fatality Case History III: Hurricane Katrina		Lecture: Mass Fatality Case History III		
4: A	Module 16: Career Paths and Applications of Forensic Anthropology					
CTION	Week 15: Dec. 5-7	Human Rights Missions	1) Bare Bones Chapter 15	Lecture: Human Rights Missions	1) Mod 16 Quiz	
SEC	(Reading days are Dec. 8 and 9, but you will still have access to this Module on those dates)	Military Identifications	2) Bare Bones Chapter 16	Videos: JPAC Command and Honored, Identified, and Loved		

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FINALS WEEK:	***FINAL EXAM DUE DECEMBER 16 ^{1H} BY 11:59 PM***
December 12-16	The final exam may be completed any time between December 12 th at 8 am and December 16 th at 11:59 pm. The December 16 th , 11:59 pm (ET) deadline is FIRM and <u>absolutely no late work will be accepted</u> beyond this deadline.

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