ANT 3520 (online)

Skeleton Keys: Introduction to Forensic Anthropology Spring 2023



Instructor: Emily R. Bartz

Email: emily.bartz@ufl.edu

Office Hours (online): Tuesday 2:00 - 3:00 pm

and Thursday 10:00 am 12:00 pm

Telephone Hours: By appointment only (please email to set up)



Teaching Assistant: Myles Sullivan

Email: myles.sullivan@ufl.edu

Office Hours (online): Monday 9:00 am – 12:00 pm



Teaching Assistant: Siobhan Summers

Email: ssummers11@ufl.edu

Office Hours (online): Tuesday and Wednesday 12:00 – 1:30 pm



Teaching Assistant: Michaela Tizazu

Email: michaelatizazu@ufl.edu

Office Hours (Online): Thursday 1:00 – 4:00 pm

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	Topic	What to Read	What to Watch	What is Due
	Access	 'Start Here" Module	. Introduction to t	ha Caursa and Can	
	Week 1: Jan. 9 - 13 All week 1 tasks are not due until after drop/add (1/13)	Introduction and Ground Rules: what to expect from an online course; syllabus review; course policies	Syllabus "Start Here" Module	Canvas Overview Video	1) Syllabus Quiz Due Wednesday 01/18
2 2	(1/13)	Module 1: 7	L The History of For	ensic Science	
ON 1: Introduction to the Course and Forensic Anthropology	Week 1 (cont.) Jan. 9 - 13	What is Forensic Anthropology?	Bare Bones Chapter 2	Lecture: What is Forensic Anthropology	1) Discussion 1 Original
	All week 1 tasks are not due until after drop/add (1/13)	History of Forensic Anthropology at UF (and beyond!)		Lecture: History of Forensic Anthropology at UF	discussion post due Wednesday 01/18; responses to two classmates due Friday 01/20
the Course					2) Mod 1 Quiz Due Friday 01/20
n to		Module	2: The Medicoleg	al System	01/20
Introductio	Week 2: Jan. 17 – 20 <i>Monday the</i>	Medicolegal Aspects of Death	Bare Bones Chapter 1	Lecture: Medicolegal Aspects of Death	1) Mod 2 Quiz Due Friday 01/20
SECTION 1:	16 th is a Holiday, no class				2) Activity1: Medico-legal matching exercise
					Due Friday 01/20
		Module 3: Fo	orensic Anthropolo	ogy in the Field	
	Week 3:	Recovery of	1) Articles on	Lecture:	1) Discussion 2
	Jan. 23 - 27	Human Remains I: Site Location and Site Survey	CSI effects (online)	Recovery of Human Remains I	2) Mod 3 Quiz

	Week 4: Jan. 30 – Feb. 3	Recovery of Human Remains II: Mapping, Excavation, and Documentation Module 4: Forer Processing remains into Evidence Laboratory Protocols, Procedures, and Quality Assurance	2) Bare Bones Chapter 3 1) Bare Bones Chapter 3 2) Supplementary "Lab SOP" (online)	Lecture: Recovery of Human Remains II in the Laboratory Lecture: Processing Remains into Evidence Lecture: Laboratory Protocols	3) Activity 2: Recovery
		Module 5: Taphor	 nomy – from Biosp	 here to Lithosphere	
	Week 5: Feb. 6 - 10	What Happens After Death? Part I What Happens After Death? Part II	1) Bare Bones Chapter 4 2) Article: Stock et al. 2017 3) Practice Activity (online)	Lecture: What Happens After Death? Part I Lecture: What Happens After Death? Part II	1) Mod 5 Quiz 2) Activity 3: Taphonomy Matching Exercise 3) Discussion 3: Taphonomy and Forensics
		Module 6: Anatomy,		,	
ogical Profile and tification	Week 6: Feb. 13 - 17	Skeletal Anatomy and Osteology Osteometry	1) Bare Bones Chapter 5 2) Practice Activity (online)	Lecture: Skeletal Anatomy and Osteology Lecture: Osteometry	1) Mod 6 Quiz 2) Activity 4: Osteology Matching Exercise
Biole			up Characteristics		
SECTION 2: The Biological Profile a	Week 7: Feb. 20 - 24	Sexual Dimorphism, Birth, and Locomotion Methods of Sex Discrimination	Bare Bones Chapter 6	Lecture: Sexual Dimorphism, Birth, and Locomotion Lecture: Methods of Sex Discrimination	1) Mod 7 Quiz

	Module 8: Group Characteristics II: Age-at-death					
	Week 7 (cont.) Feb. 20 - 24	Estimating Age in Children	Bare Bones Chapter 8	Lecture: Estimating Age in Children	1) Mod 8 Quiz 2) Activity 5: Age Matching	
		Estimating Age in Adults		Lecture: Estimating Age in Adults	Exercise	
		Methods of Age Estimation		Lecture: Methods of Age Estimation		
		Module 9: G	roup Characteristi	ics III: Stature		
	Week 8: Feb. 27 – March 3	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	
_	7.6					
_		odule 10: Group Cha				
	Week 9: March 6 – 10	Race Fact or Fiction	1) Bare Bones Chapter 7 2) PBS website	Lecture: "Race" Fact or Fiction?	1) Mod 10 Quiz 2) Activity 7: Question of	
	Have a great Spring Break!! (March 11–	Clinal Variation and Population Affinities	3) Sauer 1992	Lecture: Clinal Variation	Race 3) Discussion 4	
	17)	Determination of Ancestry: Do anthropologists cheat?		Lecture: Determination of Ancestry		
	Mo	dule 11: Individual	Characteristics an	d Personal Identific	ation	
	Week 10: March 20 - 24	Individuating Skeletal Characteristics	 Bare Bones Chapter 10 Practice Activity 	Lecture: Individuating Skeletal Characteristics	1) Mod 11 Quiz 2) Activity 8: Radiographic Comparison	
		Ante and Postmortem Radiographic Comparison		Lecture: Antemortem and Postmortem	Matching Exercise	

		Personal Identification in Action	odule 12: Forensic	Video: Finding Anastasia Art			
	11						
	Week 11: March 27 - 31	Forensic Reconstructions: Art or Science?	Bare Bones Chapter 11	Lecture: Forensic Reconstructions	1) Mod 12 Quiz 2) Discussion 5		
				Video: Forensic Files Saving Face			
			Module 13: Traun	1a			
ed Bone	Week 12: April 3 - 7	Trauma and Cause of Death: Antevs. 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		
TON 3: Skeletal Trauma and Burned Bone		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			
celet		L	Iodule 14: Cremat	ion			
	Week 13: April 10 - 14	Burned Bodies and Cremated Remains	Bare Bones Chapter 13	Lecture: Burned Bodies and Cremated Remains	1) Mod 14 Quiz 2) Activity 10: Cremation		
SECI		What Survives Cremation?		Lecture: What Survives Cremation?	Artifact Identification Exercise		
	Module 15: Mass Fatalities						
SECTION 4: Applications and	Week 14: April 17 - 21	Mass Fatality Case History I: ValuJet Flight	Bare Bones Chapter 14	Lecture: Mass Fatality Case History I	1) Discussion 6 2) Mod 15 Quiz		
		Mass Fatality Case History II: World Trade Center		Lecture: Mass Fatality Case History II			

April 24 - 26 (Reading days are April 27 and 28, but you will still have access to this Module on those dates) Missions Chapter 15 Rights Missions Videos: JPAC Command and Honored, Identified, and Loved EVIDEOS: JPAC Command and Honored, Identified, and Loved Noved ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		1			1	1		
Module 16: Career Paths and Applications of Forensic Anthropology Week 15: April 24 - 26 (Reading days are April 27 and 28, but you will still have access to this Module on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** History III Dividence Anthropology Lecture: Human Rights Missions Videos: JPAC Command and Honored, Identified, and Loved Honored, Identified, and Loved The final exam may be completed any time between May 1st at 8 am								
Module 16: Career Paths and Applications of Forensic Anthropology Week 15: April 24 - 26 (Reading days are April 27 and 28, but you will still have access to this Module on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 Meek 15: Human Rights and Applications of Forensic Anthropology Lecture: Human Rights Rights Missions 1) Mod 16 Quiz Chapter 15 Chapter 15 Chapter 16 Chapter 16 Chapter 16 Command and Honored, Identified, and Loved					Fatality Case			
Week 15: April 24 - 26 Human Rights Missions Chapter 15 Lecture: Human Rights Missions Dight Missions Chapter 15 Lecture: Human Rights Missions Dight Missions			Hurricane Katrina		History III			
Week 15: April 24 - 26 (Reading days are April 27 and 28, but you will still have access to this Module on those dates) FINALS WEEK: Human Rights April 24 - 26 Human Rights Chapter 15 1) Bare Bones Chapter 15 2) Bare Bones Chapter 16 Videos: JPAC Command and Honored, Identified, and Loved ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am								
April 24 - 26 (Reading days are April 27 and 28, but you will still have access to this Module on those dates) Missions Chapter 15 Rights Missions Videos: JPAC Command and Honored, Identified, and Loved ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		Mod	ule 16: Career Paths	and Applications	of Forensic Anthro	pology		
(Reading days are April 27 and 28, but you will still have access to this Module on those dates) Military 2) Bare Bones Chapter 16 Chapter 16 Chapter 16 Chapter 16 Videos: JPAC Command and Honored, Identified, and Loved Loved ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		Week 15:	Human Rights	1) Bare Bones	Lecture: Human	1) Mod 16 Quiz		
are April 27 and 28, but you will still have access to this Module on those dates) Identifications Chapter 16 Command and Honored, Identified, and Loved FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		April 24 - 26	Missions	Chapter 15	Rights Missions			
are April 27 and 28, but you will still have access to this Module on those dates) Identifications Chapter 16 Command and Honored, Identified, and Loved FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am								
and 28, but you will still have access to this Module on those dates) Honored, Identified, and Loved FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		(Reading days	Military	2) Bare Bones	Videos: JPAC			
and 28, but you will still have access to this Module on those dates) Honored, Identified, and Loved FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		are April 27	Identifications	Chapter 16	Command and			
you will still have access to this Module on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		and 28, but			Honored.			
have access to this Module on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		· ·			· ·			
this Module on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am		•			· ·			
on those dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am					20,00			
### dates) FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am								
FINALS WEEK: ***FINAL EXAM DUE MAY 5 TH BY 11:59 PM*** May 1 - 5 The final exam may be completed any time between May 1st at 8 am								
May 1 - 5 The final exam may be completed any time between May 1st at 8 am		,	K· ***EII	NAL EXAM DITE	MAV 5TH RV 11.	50 DM***		
	M	THUILD WELL	1.11	VAL LAAM DUI	ZWIAT J DI II.	3) 1 W		
	A	May 1 - 5 The final even may be completed any time between May 1st at 9 am						
	X	Way 1 - 3	J 1 J					
and the 5 by 11.57 pm. The Way 5th, 11.57 pm (E1) deadline is	3		and the 5 th by 11:59 pm. The May 5th, 11:59 pm (ET) deadline is					
	[A]		FIRM and absolutely no late work will be accepted beyond this					
deadline.								