ANTH 5322 Topics in Anthropology: Forensic Anthropology

Spring 2023

Prof. Christina Cheung

Lecture: Monday 2:30pm – 4:15pm, Venue: NAH 11

Tutorial: Monday 4:30pm - 5:15pm, Venue:TBC

Suggested textbook: Byers, SN (2017) Introduction to Forensic Anthropology. Routledge.

Course description: Interest in the field of forensic anthropology has been heightened in the

last decade through the success of forensic-themed television shows and popular novels. This

course will introduce students to the field of forensic anthropology – a scientific discipline that

involves the application of methods from biological anthropology and archaeology to the

identification, recovery, and analysis of skeletal remains from crime scenes, mass disasters,

and unexplained death. Through lectures and in-class assignments, students will learn about

the methods for recognizing and recovering evidence that allows for the determination of time

since death, manner and cause of death, and the identification of individuals.

Learning outcomes:

By the end of this course, student will:

• Have a foundational understanding of basic skeletal biology, and are able to identify

the bones and specific features of various skeletal elements of the adult and subadult

human skeletons.

• Learn about how osteological methods can be used to create a biological profile, and

help identify possible cause and manner of death.

• Gain new perspectives into the strengths and weaknesses of standard forensic

anthropology methods.

Understand the ethical issues that arise when working with human remains from a

medico-legal context.

Course structure and learning activities:

Two 1-hour lectures and one 45-min tutorial per week for one semester. Tutorial will take

various forms, including a field trip to visit the Hong Kong Museum of Medical Sciences

(pending COVID restrictions).

Course assessment and polices:

The final grade for the course is based on:

1) Lab assignments	5% x 6	30%
2) Midterm Exam 1	15%	15%
3) Midterm Exam 2	15%	15%
4) Final Exam	20%	20%
5) Research paper	20%	20%

There are several in-class assignments. Each assignment will consist of written exercise to be completed during tutorial and will be based on laboratory methods commonly used in forensic anthropology. Students may work together.

The exams will be based heavily on the lecture material and your notes from the in-class lectures will be your primary study materials. Required readings for each week is provided in the weekly schedule below. In addition to these readings, students are highly encouraged to reading the associated chapter(s) from the suggested textbook.

Detailed information about the final research paper will be provided in class.

Submission and academic honesty

As required by the university, from Sept. 2008, students must submit a soft copy of their computer-generated text assignments to VeriGuide at a specified URL. The system will issue a receipt containing a declaration of honesty statement. Students should sign the receipt, print a hard copy of their assignment, and submit the hard copy and the receipt to teachers for grading. The university says that assignments without the receipt will not be graded.

Please check the website "Honesty in Academic Works" at: http://www.cuhk.edu.hk/policy/academichonesty/

for more information on plagiarism and on how to submit papers through VeriGuide.

Grade descriptors

Grade	Overall course
A	Outstanding performance on all learning outcomes.
A-	Generally outstanding performance on all (or almost all) learning outcomes.

В	Substantial performance on all learning outcomes, OR high performance on some learning		
	outcomes which compensates for less satisfactory performance on others, resulting in overall		
	substantial performance.		
С	Satisfactory performance on the majority of learning outcomes, possibly with a few		
	weaknesses.		
D	Barely satisfactory performance on a number of learning outcomes.		

Weekly schedule (this syllabus is subject to change)

Week	Date	Lecture Topic	Chapter
1	Jan 9	1. Introduction to Forensic Anthropology Cattaneo 2007 — Forensic Anthropology: Developments of a Classical Discipline in the New Millennium. Forensic Science International 165(2-3): 185-193. https://doi.org/10.1016/j.forsciint.2006.05.018	1
2	16	2. Human Osteology Rissech 2021 – The Importance of Human Anatomy in Forensic Anthropology. European Journal of Anatomy 25(S2): 1-18.	2
3	23	Lunar New Year	
4	30	3. Establishing Forensic Contexts Blau 2018 – It's All About The Context: Reflections on the Changing Role of Forensic Anthropology in Medico-Legal Death Investigations. Australian Journal of Forensic Sciences 50(6): 628-638 https://doi.org/10.1080/00450618.2017.1422022	3 and 4
5	Feb 6	4. Estimating Time Since Death Wescott 2018 – Recent Advances in Forensic Anthropology: Decomposition Research. Forensic Sciences Research 3(4): 278-293. https://doi.org/10.1080/20961790.2018.1488571	5
6	13	5. Initial Treatment and Examination Mundorff 2011 – Integrating Forensic Anthropology into Disaster Victim Identification. Forensic Science, Medicine, and Pathology 8: 131-139. https://doi.org/10.1007/s12024-011-9275-0	6
7	20	6. Sex Determination Krishan, Chatterjee, Kanchan, Kaur, Baryah, & Singh 2016 – A Review of Sex Estimation Techniques during Examination of Skeletal Remains in Forensic	8

		Anthropology Casework. Forensic Science International 261:162.e1-165.e8 https://doi.org/10.1016/j.forsciint.2016.02.007	
8	27	7. Age Determination Ubelaker & Khosrowshahi 2019 – Estimation of Age in Forensic Anthropology: Historical Perspective and Recent Methodological Advances. Forensic Sciences Research 4(1): 1-9 https://doi.org/10.1080/20961790.2018.1549711	9
9	Mar 6	Reading Break	
10	13	8. Stature Determination Krishan, Kanchan, Menezes, & Ghosh 2012 – Forensic Anthropology Casework – Essential Methodological Considerations in Stature Estimation. Journal of Forensic Nursing 8(1): 45-50. https://doi.org/10.1111/j.1939-3938.2011.01122.x	10
11	20	9. Ancestry Determination Dunn, Spiros, Kamnikar, Plemons, & Hefner 2020 – Ancestry Estimation in Forensic Anthropology: A Review. WIRES Forensic Science 2(4): e1369 https://doi.org/10.1002/wfs2.1369	7
12	27	10. Cause and Manner of Death Baraybar & Gasior 2006 - Forensic Anthropology and the Most Probable Cause of Death in Cases of Violations Against International Humanitarian Law: An Example from Bosnia and Herzegovina. <i>Journal of Forensic Sciences</i> 51(1): 103-108 https://doi.org/10.1111/j.1556-4029.2005.00035.x	11 – 14
13	April 3	11. Ante- and Post- Mortem Skeletal Conditions Blau 2016 – How Traumatic: A Review of the Role of the Foresic Anthropologist in the Examination and Interpretation of Skeletal Trauma. Australian Journal of Forensic Sciences 49 (3): 261-280. https://doi.org/10.1080/00450618.2016.1153715	15 – 18
14	17	Dirkmaat, Cabo, Ousley, & Symes 2008 – New Perspectives in Forensic Anthropology. <i>American Journal of Physical Anthropology</i> 137 (S47): 33-52 https://doi.org/10.1002/ajpa.20948	19
	TBA	Final Exam	

Topics for tutorials:

Week 1: No tutorial

Week 2: Film: Forensics: The Real CSI – Standard of Evidence

Week 3: Lunar new year

Week 4: Film: Written in Bone

Week 5: Midterm Exam 1

Week 6: Field trip to the Hong Kong Museum of Medical Sciences (pending COVID

restrictions)

Week 7: Assignment – Estimating Sex

Week 8: Assignment – Estimating Age

Week 9: Reading Break

Week 10: Assignment – Estimating Stature

Week 11: Assignment – Estimating Ancestry

Week 12: Midterm Exam 2

Week 13: Film: Finding Anastasia

Week 14: Assignment – Individualization