

070:385 – Bones & Bioarchaeology

Primary Instructor: Kimberlee Moran, MSc, RPA (k.moran@camden.rutgers.edu; SCI302; 856-203-0687)

NOTE: this syllabus is extremely fluid and subject to change!

Wk	Date	Time	Subject	Speaker
1	Sept 8	Anytime	Introduction to Course & the Arch St Project (virtual) Intro to Archaeology (online https://goo.gl/mmhsPE)	Prof. Moran
2	Sept 15		Introduction to the Arch St human remains Human Bone	Prof. Moran
Reaction paper due Sept 18: Read this article (http://goo.gl/0fwBPv) and write a 1-page, single-spaced reaction to it. Upload to Sakai.				
3	Sept 22		Conservation Science Cleaning artifacts & bone practice	Tovah Mitchell
4	Sept 29		Biological Profile Animal Bone	Prof. Moran Dr. Allison Grunwald
5	Oct 6		Trip to the Waggin; coffins	Prof. Moran
6	Oct 13		Historical Context	Sam Muller & Nick Bonneau
7	Oct20		Arch St Bones: humerus & scapula	Prof. Moran
Due Oct 23: Mid-term paper. Upload to Sakai.				
8	Oct 27		Arch St Bones: radius & ulna	Prof. Moran
9	Nov 3		Arch St Bones: femur, tibia, fibula	Prof. Moran
Due in class Nov 10: Material Culture exercise				

10	Nov 10		Material Culture Material Culture exercise Historic artifacts	Prof. Moran
11	Nov 17		Cleaning material culture	
Due in class Nov 22: Choose an item you encountered in Week 10 and prepare a 15min presentation on it. Include usage, dates, development, and manufacture. Submit slides to Sakai.				
12	Nov 22		Material Culture Presentations	
13	Dec 1		More cleaning	
14	Dec 8		Final Exam	

Bones & Bioarchaeology (070:385) – Fall 2017

ADDITIONAL INFORMATION FOR STUDENTS

All sessions will be held in SCI-204 unless otherwise informed. Sessions held at “The Waggin’ Tails” are located at 2037 Route 130, Burlington, NJ.

I. Teaching Faculty:

Kimberlee Moran, MSc, RPA

Associate Teaching Professor & Director of Forensics

SCI 302

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II. Class Description:

In March of 2017 a historic burial ground was discovered at 218 Arch St in Philadelphia. Rutgers faculty and students removed over 70 burials, many of them as intact coffins. This course provides students a unique opportunity to study osteology and archaeology using actual human remains. Students will learn field and laboratory techniques in the excavation, identification, and analysis of skeletal material. Students will gain hands-on experience at an off-site facility as they work to internally excavate bones from the Arch Street coffins. This course will also cover human and animal bone identification, mortuary practices, how to construct biological profiles, and methods to assess demographics, health status, and living conditions.

III. Textbooks:

Please purchase the following book:

1. “The Human Bone Manual” by White & Folkens 2005.

Additional readings will be posted on Sakai either under “Resources” or as an announcement. It is essential that you check your Rutgers e-mail as all course announcements will be sent there.

Other useful aids include “The Essential Skeleton” – app for mobile phone or iPad and skeletons.org

IV. Educational Objectives:

By the end of this course, students will:

- List the main elements that make up the human skeleton
- Know the difference between male and female skeletons
- Understand how age estimation is done
- Be able to clean skeletal material and material culture appropriately
- Describe historic artifacts relevant to the Arch St Project
- Understand how to use both material culture and skeletal material to create hypotheses related to human behaviour, life status, and social hierarchies

V. Required Equipment:

Students are required to purchase the following equipment for use in the field. The URL's are meant to provide examples of each item only. Students may purchase these items from any vendor:

1. Gloves (<http://www.homedepot.com/p/Firm-Grip-High-Dex-Glove-3-Pack-3101-96/202203753>)
2. Mechanical Pencils
3. Metric Ruler
4. Graph Paper
5. Clip Board (http://www.homedepot.com/p/DOC-BOX-Permit-Posting-Box-Junior-10201/100487440?MERCH=REC_-SearchPLPHorizontal1-1- -NA- -100487440- -N)
6. Sharpie markers for labeling bags
7. Old Paint Brushes in various sizes
8. Old Toothbrushes
9. Plastic dishwashing tub
10. Hand towel

Please bring these items to every session. Keep them in a bag and make sure all items are labeled with your name. Failure to have the necessary equipment will affect your "preparedness" grade.

VI. Class Participation:

Participation in each class by the student is crucial to exemplify the student's understanding of the material. Each student is expected to read any assigned material in advance and come to each class prepared to discuss the topic. Where possible, students will be allocated reading material prior to class. This information will be disseminated via Sakai.

VII. Assessment:

The assessment for this course consists of **five** components each contributing to the final grade as outlined below. The taught material will be assessed as follows:

1. **Reaction Paper 1:** Due Sept 18. Read this article (<http://goo.gl/OfwBPv>) and write a 1-page, single-spaced reaction to it. Upload to Sakai in a Windows-friendly format (.doc, .docx, .pdf).
2. **Mid-term 5-page paper:** Due Oct 23. Suggested topics are available on Sakai. Other topics are very welcome, but must be approved by the instructor. Length should be 5 pages. No coverpages. Use either Times New Roman or Ariel font (10pt -12pt). Spacing should be set at 1.5 lines with 1 inch margins all around. Additional pages of images may be added if needed to illustrate the text. Citation format must be consistent and the bibliography is in addition to the page limit. Papers must be submitted using the class Sakai site and files must be in .doc, .docx, or .pdf format. Use primary sources such as published books, peer-reviewed journal, historic documents, and excavation reports. Websites are rarely acceptable. Turnitin will be used to check for plagiarism.

3. **Material culture exercise:** Due Nov 10. Each student is required to bring five objects from home that they feel are representative of them, their activities, and/or their beliefs/values. They must bring them in an opaque container such as a bag or box. The containers will be exchanged. Students will use the objects to build a profile of their unknown owner. They will try to guess to whom the objects belong and they will then see how many of their assumptions are correct. They will learn the true meaning of the objects and present this to the group.
4. **Material culture presentations (Nov 22):** Choose an item you encountered in Week 10 (nails, glass, ceramic, leather shoe, coffin hardware, pipe stem, etc) and prepare a 15min presentation on it. Include usage, dates, development, and manufacture. Suggest the significance of the item to the overall interpretation of the Arch St Project. Submit slides to Sakai in .ppt or .pdf format.
5. **Final exam (due date):** You will be given an in-class final exam. It will include bone and artefact identification as well as multiple-choice, true/false, and short answer questions.

VIII. Evaluation and Grading:

Reaction Paper	20%
5-page paper	20%
Material culture exercise	20%
Material culture presentations	20%
<u>Class participation/attendance/preparedness</u>	<u>20%</u>
Total	100 points

IX. Writing:

Students are encouraged to submit drafts of paper prior to the assignment due date in order to develop their writing skills. Students are also encouraged to make use of the Rutgers Learning Center and the Writing Tutors on staff. All writing submissions must be done via the course's SAKAI site and should be in .pdf, .doc, or .docx format. Coverpages, bibliographies, images and graphs/tables are in addition to the page limit. Late submissions will have 10% deducted from the final grade for every day late. It is advised that students use "The Brief Penguin Handbook" as a writing resource guide.

X. Attendance:

Please make every effort to be present for class on time. If you do not attend class you will miss information that is not always available in the text or elsewhere that you will be responsible for on assessments; you will miss information as to schedule changes that may arise.

XI. Late Assignments:

Unless you have a legitimate excuse, absence, or emergency, you may not make-up any missed work and will thus receive a 0 for that assignment. Late assignments will not be graded and the student will receive a 0 for the assignment turned in late.

XII. Academic Policies:

Each student in this course is expected to abide by the University Code of Academic Integrity (<https://fas.camden.rutgers.edu/faculty/faculty-resources/academic-integrity-policy/>). Any work submitted by a student in this course for academic credit will be the student's own work. All writing assignment should be an original work by a student. Students are highly recommended to educate themselves on the subject; <http://library.camden.rutgers.edu/EducationalModule/Plagiarism/whatisplagiarism.html> Forensic science is a profession that is internally maintained by ethics and personal integrity.

XIII. Classroom Courtesy:

Please do not catch up on sleep, search your wireless internet connection, text message your friends, listen to your iPod, read the newspaper or other unrelated materials, during class. Please turn cell phones off during class.

XIV. Students with Disabilities:

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>