**Course Description**

Bioarchaeology is an emerging discipline that emphasizes the human biological component of the archaeological record. Human skeletal and dental remains provide an important source of information on the study of human variation and the state of the human condition and human behavior in the past. This course will focus on the bioarchaeology of the Pacific-Asian region focusing on archaeological human skeletons. The regions to be covered in this course include Polynesia, Micronesia, Melanesia, Australia, Southeast Asia, and East Asia. Among the topics to be explored are musclo-skeletal indicators, paleodemography, paleopathology, dental anthropology, indicators of biological stress, trauma and violence, infectious diseases, biodistance studies, isotopic analysis of diet and nutrition.

**Prerequisites:** Anth 215, 215L; Anth 384, 384L; or consent of instructor.

**Student Learning Outcomes**

1. Become familiar with general field of bioarchaeology.
2. Specific methods used in bioarchaeology, paleopathology, and related fields.
3. Review of previous work in bioarchaeology of the Pacific-Asian region.

**Required Text:**

**Optional Texts:**


**Other Readings:**
Most of the readings listed on the "Schedule of Lectures and Readings" (see pp. 4-9) will be available through electronic reserves on the UH Voyager libraries database (http://uhmanoa.lib.hawaii.edu/).

**Course Requirements and Grade Distribution:**

1. **Class Participation and Weekly Written Assignments (30 pts.)**

The normal format of this course will consist of lectures, demonstrations, and discussions based on the readings. You should keep up with the readings so that you will be prepared to participate in and contribute to class discussions. Because class participation is 30% of the final grade, attendance is extremely important. Each member of the seminar is expected to read ALL of the assigned readings. To facilitate the oral discussion of these, **each** student will prepare a written
summary of the specific articles (@ 2 pts) assigned to them each week. The written summaries will be used to discuss the assigned readings. Written summaries (one half to one page in length) should be distributed to the other members of the seminar on the day of the seminar and/or sent at an attachment to all members of the seminar group.

2. Proposal for Research Paper and Annotated Bibliography (10 pts)

This assignment will prepare the student for completing the annotated bibliography and research paper. The proposal will include:

1. Title (descriptive, interesting, and creative)
2. Typed description of your research topic including major question(s) that you will address, a brief explanation of its relevance to the course, evidence that a sufficient literature exists for your study, why it interests you, an outline of your proposed research paper, and a list of the sources that you have been able to find thus far.

Due date: Feb. 14

3. Annotated Bibliography Assignment (25pts.)

Prepare an annotated bibliography for at least 8-10 key articles (e.g., journal articles and chapters in books) that pertain to one of the major topics within bioarchaeology (see suggestions that follow) and to the Pacific-Asia region. The works to be included in an annotated bibliography should include any ‘classic’ studies on your topic as well as the most recent contributions. Provide comments and notes on how each work listed in the bibliography pertains to your topic. Also include a 1 page (250 words max.) general review that includes what you found in the literature and how this relates to your proposed research paper. Consult the guidelines on how to prepare an annotated bibliography.

Some Topics in Bioarchaeology
- growth related studies
- linear enamel hypoplasia (LEH)
- porotic hyperostosis and anemia
- infectious disease
- paleodemography
- mortuary analysis
- musculo-skeletal markers (MSM)
- trauma
- osteoarthritis
- bioarchaeology of children
- nonmetric trait variation
- craniometric studies
- staple isotope analysis
- molecular genetic studies (mtDNA, Y-chromosome, etc.)
- trace element analysis
- trauma
- osteoarthritis
- dental pathology
- biomechanical analysis
- stature
- insular dwarfism
- malaria
- cranial-facial form: rocker jaw
- cultural modification of bone/teeth
- cannibalism
- treponematosis (yaws)
- leprosy
- malaria
- Oceanic tooth size
- Sundadonty/Sinodonty

Due Date: March 14

4. Research Paper Assignment (35 pts.).

Write a research paper (10-12 double-spaced pages +references, figures, etc.) on a topic in the bioarchaeology of Pacific-Asia. Refer to the distributed guidelines on research paper writing and referencing styles. Include a full bibliography. Graduate students are expected to produce longer (15-20 pages+ supplemental) research papers.
Due Date: May 2

Grade Evaluation:

Grades will be assigned using the following grading scale:

- 97-100 A+
- 94-96 A
- 90-93 A-
- 87-89 B+
- 84-86 B
- 80-83 B-
- 77-79 C+
- 74-76 C
- 70-73 C-
- 67-69 D+
- 64-66 D
- 60-63 D-
- 0-59 F

Consultation:

Please feel free to come to see me with any questions or concerns you have regarding the course material, your progress, grades, requirements, etc. Remember, if you are unable to meet during posted office hours, we can make an appointment to meet at another time. E-mail is a good way to reach me if you have brief questions. Please, as needed, make use of the many resources around campus designed to enhance your learning and campus experience. For those needing help with classes, research, study techniques, etc., you may wish to visit the Student Success Center at Sinclair Library (http://gohere.manoa.hawaii.edu/).

Academic Integrity:

See policies of the University on academic integrity in the University of Hawaii Manoa 2008-2009 Catalog, p. 565-566.

Schedule of Lectures and Readings

Note: This is a course outline only and subject to change as needed. Most of the readings are available through electronic reserves on the UH Voyager libraries database (http://uhmanoa.lib.hawaii.edu/).

Week 1 (Jan 10): Introduction: organization; geography and prehistory of Pacific-Asia

Reading:


January 17: Holiday: Martin Luther King, Jr. Day

Week 2 (Jan 24): Bioarchaeology, paleopathology, osteological paradox

Reading:


**Week 3 (Jan 31): Paleodemography, sudadult growth, adult stature**

**Reading:**


**Week 4 (Feb 7) Dental pathology and LEH**

**Reading:**
Larsen (1997) Ch. 3:64-82.


**Week 5 (Feb 14) Porotic hyperostosis, cribra, and infectious disease**
**Reading:**


**February 21: Holiday: President’s Day**

**Week 6 (Feb 28) Osteoarthritis, trauma and MSM, biomechanical analysis**
**Reading:**
Larsen (1997) Ch. 4-6.


5

**Week 7 (Feb 7) Biological relatedness, biodistance**

Larsen (1997) Ch. 9.


**Week 8 (Mar 14) Chemical analyses: stable isotope and DNA**


SPRING BREAK: MARCH 21-25

Week 9 (Mar 28) Bioarchaeology in Southeast Asia


Week 10 (Apr 4) Bioarchaeology in East Asia


**Week 11 (Apr11) Bioarchaeology: Papua New Guinea, Solomon Is. and Vanuatu**

Reading:


**Week 12 (Apr 18) Bioarchaeology of Mariana Islands & Western Pacific**

Reading


**Week 13 (Apr 25) Bioarchaeology: Fiji and Western Polynesia**


**Week 14 (May 2) Bioarchaeology: Hawaii, New Zealand, Rapa Nui**

**Reading:**


