Isotopes in Archaeological Science
(ANG 6930)

Fall 2018

Time: Tuesdays 3:00 -6:00 pm (Periods 8 - 10)
Place: B304 Turlington Hall
Instructor: John Krigbaum, Ph.D.
office: 1350A Turlington Hall
hours: 1-3pm Wednesdays and Thursdays, + by appointment
e-mail: krigbaum@ufl.edu
tel: 352-294-7540

Course Websites: http://elearning.ufl.edu/ (Canvas)

Course Overview

This seminar will review isotopes in archaeological science in considerable detail. There is a lot that we can cover, but we will focus principally on bioarchaeology and zooarchaeology applications of isotopes to address salient anthropological issues. Isotopes are used in myriad ways in the natural sciences and their application in anthropology helped kickstart the field of stable isotope ecology in the 1960s and 70s. We will review the history of isotopes in the field, and discuss the baseline literature and find case studies to bring to class, focused on a particular topic. This class will depend upon student participation presentations of selected papers. This is a seminar course, and all readings assigned should be read prior to the class that they are scheduled.

Grading

- Article briefs 100 points (1 per week, on average)
- Class participation 200 points
- Final 'project' 200 (50 points for draft, 150 points for final submission)

percentile breakdown: 93.50-100 = A; 90-93.49 = A-; 86.5-89.99 = B+; 83.5-86.49 = B; 80-83.49 = B-; 76.5-79.99 = C+; 73.5-76.49 = C; 70-73.49 = C-; 66.5-69.99 = D+; 63.5-66.49 = D; 60-63.49 = D-; <59.99 = E.

Policy on Makeup Exams and Late Work

There will be no makeup exams except in the case of incapacitating illness or other university-approved absence (please see the University's policy on absences). In such cases, you must provide documentation from an appropriate authority to the instructor as soon as possible.

Academic Honor Code

Unless it is specifically connected to assigned collaborative work, all work should be individual. Evidence of collusion (working with someone not connected to the class or assignment), plagiarism (use of someone else's published or unpublished words or design without

acknowledgment) or multiple submissions (submitting the same paper in different courses) will lead to the Department's and the University's procedures for dealing with academic dishonesty. All students are expected to honor their commitment to the university's revised Honor Code (available online at https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/).

Accommodation for Students with Disabilities
Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.
Please make any requests by the second week of class.

UF Counseling Services
Resources are available on-campus for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

- U Matter, We Care: http://www.umatter.ufl.edu/
- Counseling and Wellness Center, 3190 Radio Road, (352) 392-1575, M-F 8am-5pm.
- Medical Care, Student Health Care Center, (352) 392-1161, M-F 8am-5pm.
- Career Resource Center, Reitz Union, (352) 392-1601, M-F 8am-5pm.

Syllabus Policy
This syllabus is a guide for the course and is subject to change with advanced notice. It will be updated and additional information will be posted on Canvas.

Required Texts: None

Course Outline:

Week 2 (8/28)	Introduction
Week 3 (9/4)	Carbon in plants and animals
Week 4 (9/11)	Nitrogen in plants and animals
Week 5 (9/18)	Oxygen/Hydrogen in plants and animals: Diet and Physiology
Week 6 (9/25)	No Class. Watch Margaret Schoeninger lecture.
Week 7 (10/2)	Oxygen/Hydrogen in plants and animals: Climate and Habitat Use
Week 8 (10/9)	Strontium Isotopes
Week 9 (10/16)	Lead Isotopes
Week 10 (10/23)	Isotope Grab Bag
Week 11 (10/30)	Isotope Grab Bag
Week 12 (11/6)	Sulphur Isotopes (Draft Project Outline Due in Class)
Week 13 (11/13)	Stable Isotope Mixing Models
Week 14 (11/20)	Thanksgiving Week: Student Presentations
Week 15 (11/27)	Student Presentations
Week 16 (12/4)	Student Presentations (Project Due in Class + on Canvas)