

ANTHROPOLOGY 6115
ARCHAEOLOGICAL METHODS

Fall 2005
University of South Florida

CLASS MEETINGS: Tuesdays 1:00-3:50 PM

Instructor: Robert H. Tykot (Assoc. Professor)
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Required texts: *Field Methods in Archaeology*, by T.R. Hester, H.J. Shafer & K.L. Feder. 7th edition, 1997. Mayfield.

The Archaeologist's Laboratory. The Analysis of Archaeological Data, by E.B. Banning. 2000. Kluwer/Plenum.

COURSE OBJECTIVES AND EMPHASES

This graduate-level seminar is designed to examine in detail archaeological methods used both in the field and in the laboratory, from survey and excavation to isotopic analysis of materials. A prior background in archaeology is required (i.e. ANT 3101 or equivalent). Each week significant articles from the archaeological literature will be presented and critiqued. Hands-on experience may also be obtained in field methods (as circumstances permit), in computer applications, and in artifact analysis.

GRADES

In addition to the reading assignments required of all students, at least every other week students will be assigned individual readings which he/she will summarize for the class. The important methodological and interpretive points of the article(s) will be presented (5 minutes) and discussed orally; a handout (for all members of the class) including your name and date, the full reference for the article, and an outline/commentary of its contents/methods/significance to the topic of the week should also be prepared. Over the course of the semester, there will also be several hands-on exercises. Lastly, each student will do a term paper in the format of a grant proposal, on a pre-approved topic, which also will be presented to the class.

Course grades will be based on these weekly presentations and participation in class discussions (30%), class exercises (25%), and the term paper (35% for the paper; 10% for presentation). Course letter grades will be based on a curved standardized score with "A+" awarded for 97-100; "A" for 94-96; "A-" for 90-93; "B+" for 87-89; "B" for 84-86; "B-" for 80-83; "C+" for 77-79, "C" for 74-77; "C-" for 70-73; "D+" for 68-69; "D" for 66-67; and "D-" for 65.

OTHER POLICIES

Students are strongly encouraged to attend each class. Attendance will be taken. Students who anticipate being absent from class due to observation of a major religious observance or other significant circumstances must provide advance written notice of the date(s) to the instructor. Academic dishonesty, including plagiarism and cheating, will be punished according to University Guidelines, and may result in the receipt of an "F" on a paper (for plagiarism), an "F" in the course, suspension or expulsion from the University. Notes or tapes are permitted for purposes of sale only with the express written consent of the instructor.

COURSE SCHEDULE

Week	Date	Lecture and Discussion Topics
1	Aug. 30	Introduction and Library Research Methods Library Research Exercise
2	Sept. 6	Surveying, Remote Sensing Hester <i>et al.</i> 1997 chaps. 1, 2, 4 Hands-on demonstration: GPR and Electrical Resistivity
3	Sept. 13	Mapping Hester <i>et al.</i> 1997 chap. 9 Hands-on demonstration: Transit, Total Station, GPS
4	Sept. 20	Archaeological Strategies and Sampling Hester <i>et al.</i> 1997 chap. 3; Banning chaps. 1, 4
5	Sept. 27	Geographic Information Systems Kvamme, K.L. 1999. Recent directions and developments in geographical information systems. <i>Journal of Archaeological Research</i> 7: 153-201. Hands-on demonstration/exercise: Mapping and GIS
6	Oct. 4	Excavation and Data Collection, Conservation Hester <i>et al.</i> 1997 chaps. 5, 6, 7; Banning chap. 7
7	Oct. 11	Stratigraphy; Chronology and Absolute Dating Methods Hester <i>et al.</i> 1997 chaps. 10, 14; Banning chaps. 13, 14, 15 Radiocarbon Dating Exercise
8	Oct. 18	Understanding Site Formation Processes Banning chap. 12 Herz, N. & E. Garrison. 1998. Chapters 2-3 (pp. 17-65) in <i>Geological Methods for Archaeology</i> . Oxford University Press. Term Paper Topic Proposal Due
9	Oct. 25	Artifact Classification; Database and Computer Applications Banning chaps. 2, 3, 6 Richards, J.D. 1998. Recent trends in computer applications in archaeology. <i>Journal of Archaeological Research</i> 6: 331-382. Computer Database and Spreadsheet Exercise
10	Nov. 1	Spatial Analysis Binford, L.R. 1982. The archaeology of place. <i>Journal of Anthropological Archaeology</i> 1: 5-40.
11	Nov. 8	Technological and Functional Studies Banning chaps. 8-9 Grant Proposal Formats

- 12 Nov. 15 Characterization and Provenance Studies
Tykot, R.H. 2003. Determining the source of lithic artifacts and reconstructing trade in the ancient world. In P.N. Kardulias & R. Yerkes (eds.), *Written in Stone: The Multiple Dimensions of Lithic Analysis*, 59-85. Maryland: Lexington Books.
Computer Graphics Exercise
- 13 Nov. 22 Analysis of Organic Materials for Subsistence and Other Information
Hester *et al.* 1997 chaps. 11, 12, 13; Banning chaps. 5, 10, 11
Larsen, C.S. 1997. Chapter 8 (pp. 270-301) in *Bioarchaeology. Interpreting Behavior from the Human Skeleton*. Cambridge University Press.
- 14 Nov. 29 Reconstructing Paleoenvironments
Rapp, G., Jr. & C.L. Hill. 1998. Paleoenvironmental reconstructions: humans, climates, and ancient landscapes. In *Geoarchaeology. The Earth-Science Approach to Archaeological Interpretation*, 86-111. Yale University Press.
Paper Draft Due
- 15 Dec. 6 Student Presentations
- Dec. 12 **Papers Due 9 am**