



Spring 2024

Section A450 (Class 29741)
Monday, Periods 4-6 (10:40-1:40)
Turlington B357

Coordinator: Kenneth E. Sassaman
Office hours: Weds. and Fri. 10:30-noon
Office: Turlington B372; phone: 352-294-7601
Otherwise at Lab: Tues. and Thurs. 8:30-3:00
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Instructors (in order of appearance):

Kenneth E. Sassaman, Department of Anthropology (sassaman@ufl.edu)
Neill J. Wallis, Florida Museum (nwallis@flmnh.ufl.edu)
Michelle J. LeFebvre, Florida Museum (mlefebvre@flmnh.ufl.edu)
John S. Krigbaum, Department of Anthropology (krigbaum@ufl.edu)
James M. Davidson, Department of Anthropology (davidson@ufl.edu)

Description: *Materials Analysis* (ANG 5931) is a practicum in the identification, classification, and analysis of archaeological materials routinely encountered in the practice of cultural resource management and related aspects of public archaeology, as well as research in academic archaeology. Emphasis is on materials common to the American Southeast, although many of the skills developed in this course are transferrable to research areas worldwide.

The course is divided into five modules of two or three weeks each that correspond to five major categories of material remains archaeologists working in the American Southeast encounter routinely: (1) lithic materials; (2) Indigenous pottery; (3) invertebrate and vertebrate faunal remains; (4) human skeletal remains; and (5) historic-era artifacts. Each module is taught by an expert on the respective materials.

Required Text: all readings for this course will be provided free-of-charge to students via the Canvas course page.

Format: With the exception of the module on human skeletal remains, which requires special care (see below), each module consists of three weeks and is presented in this general sequence: (Week 1) hands-on examination of the archaeological materials one can expect to see routinely in the American Southeast; (Week 2) review of current methods of classification and quantification, using case material; (Week 3) exercise of skills acquired through basic sorting and cataloging of a small assemblage.

The module on human skeletal remains is only two weeks and thus not intended to suffice for the professional obligation of every practicing archaeologist in the U.S. to recognize human skeletal remains when they see them. Basic training in human osteology requires at least a full semester. This short module can only lay the groundwork for a necessary skill, but it also provides an opportunity to understand how the law, human rights, and cultural values structure the way archaeologists handle human bone.

Graded Assessments: Practical exams at the end of each module comprise 15 percent each of the final grade (75 percent total). These exams assess both technical skill and the conceptual grasp of pattern recognition and problem orientation.

Another 20 percent of final grades is assessed on the accuracy and consistency of cataloging exercises at the end of four modules. The final five percent is earned through attendance and participation.

Academic Honesty and Integrity: All students must comply with the University of Florida's Student Honor Code, which can be found online at <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Special Accommodations: 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 me when requesting accommodation. The Disability Resource Center is located in Reid Hall, Room 001. Phone there is 352-392-8565. More information can be found at <https://disability.ufl.edu/>

COURSE OUTLINE

Module 1: Lithic Materials (Sassaman)

Primary texts:

Andrefsky, William. 2005. *Lithics* (second edition). Cambridge University Press, New York.

Whittaker, John C., 1994. *Making and Understanding Stone Tools*. University of Texas Press, Austin.

Adams, Jenny L. 2014. *Ground Stone Analysis: A Technological Approach* (second edition). University of Utah Press, Salt Lake City.

Select Identification Guides (mostly American Southeast):

Bullen, Ripley P. 1975. *A Guide to the Identification of Florida Projectile Points*. Florida Anthropological Society, Gainesville.

(NOTE: online guide of Florida Museum much more up-to-date and useful:
<https://www.floridamuseum.ufl.edu/flarch/blog/identify-your-florida-projectile-point/>)

Cambron, James W. and David C. Hulse. 1964. *Handbook of Alabama Archaeology, Part I: Point Types* (edited by David L. DeJarnette). Alabama Archaeological Society, Huntsville.

Charles, Tommy, and Christopher R. Moore. 2018. *Prehistoric Chipped Stone Tools of South Carolina*. CreateSpace Independent Publishing.

Daniel, I. Randolph, Jr. 2021. *Time, Typology, and Point Traditions in North Carolina Archaeology: Formative Cultures Reconsidered*. University of Alabama Press, Tuscaloosa.

Justice, Noel D. 2009. *Stone Age Spear and Arrow Points of the Midcontinental and Eastern United States: A Modern Survey and Reference*. Indiana University Press, Bloomington.

McGahey, Samuel O. 2004. *Mississippi Projectile Point Guide* (revised edition). Mississippi Department of Archives and History, Jackson.

Whatley, John S., and John Arena, Jr. 2021. *An Overview of Georgia Projectile Points and Selected Cutting Tools* (second edition). Independently published.

Schedule:

Jan. 8: Identification of lithic raw materials and forms of flaked, ground, and polished lithic tools.

Jan. 15: MLK DAY – no class.

Jan. 22: Analytical and quantitative approaches to lithic tools and the by-products of their manufacture.

Jan. 29: Practical exercise and exam in the identification, cataloging, and quantification of lithic tools and the by-products of their manufacture.

Module 2: Indigenous Pottery (Wallis)

Primary texts:

Rice, Prudence M. 2015. *Pottery Analysis: A Sourcebook* (2nd edition). University of Chicago Press, Chicago.

Skibo, James M. 2013. *Understanding Pottery Function*. Springer, New York.

Select Identification Guides:

Fuller, Richard S. 1996. *Mississippi through Early Historic Period Shell Tempered Pottery in the Pensacola Culture Area: How to Classify Types, Varieties, and Modes*. Alabama Museum of Natural History, Tuscaloosa.

Willey, Gordon R. 1949. *Archaeology of the Florida Gulf Coast*. Smithsonian Miscellaneous Collections 13. (reprinted 1998 by University Press of Florida, Gainesville).

For modern perspective of the type-variety system as it applies to Weeden Island:

Rice Prudence M., and Neill J. Wallis. 2022. Thoughts on Weeden Island Pottery Classification: The Type-Variety System (again). *Southeastern Archaeology* 41:145-154.

Florida Museum digital ceramic type collection:
<https://www.floridamuseum.ufl.edu/histarch/ceramic-types/>

Schedule:

Feb. 5: Identification of Indigenous pottery by temper, form, and surface treatment.

Feb. 12: Analytical and quantitative approaches to Indigenous pottery.

Feb. 19: Practical exercise and exam in the identification, cataloging, and quantification of Indigenous pottery.

Module 3: Invertebrate and Vertebrate Faunal Remains (LeFebvre)

Primary text:

Reitz, Elizabeth J., and Elizabeth S. Wing. 2008. *Zooarchaeology* (2nd edition). Cambridge University Press, New York.

Select Identification Guides:

Olsen, Stanley J. 2004. *Mammal Remains from Archaeological Sites: Southeastern and Southwestern United States* (reprint of 1964 edition). Papers of the Peabody Museum, Harvard University, Cambridge, MA.

Olsen, Stanley J. 2004. *Fish, Amphibian and Reptile Remains from Archaeological Sites* (reprint of 1968 edition). Papers of the Peabody Museum, Harvard University, Cambridge, MA.

Olsen, Stanley J. 2004. *Osteology for the Archaeologist: No. 3. The American Mastodon and the Woolly Mammoth; No. 4. North American Birds: Skulls and Mandibles* (reprint of 1972 edition). Papers of the Peabody Museum, Harvard University, Cambridge, MA.

Schedule:

Feb. 26: Identification of major classes of vertebrate and invertebrate faunal remains.

Mar. 4: Analytical and quantitative approaches to vertebrate and invertebrate faunal remains.

Mar. 11-15: SPRING BREAK

Mar. 18: Practical exercise and exam in the identification, cataloging, and quantification of vertebrate and invertebrate faunal remains.

Module 4: Human Skeletal Remains (Krigbaum)

Primary texts:

White, Timothy D., and Pieter A. Folkens. 2005. *The Human Bone Manual*. Elsevier Academic Press, New York.

White Timothy D., Michael T. Black, and Pieter A. Folkens. 2011. *Human Osteology* (3rd edition). Elsevier Academic Press, New York.

Buikstra, Jane E., and Douglas Ubelaker. 1994. *Standards for the Data Collection from Human Skeletal Remains*. Arkansas Archeological Survey, Fayetteville.

Schedule:

Mar. 25: Identification and handling of human skeletal remains.

Apr. 1: Practical exercise and exam in the identification and handling of human skeletal remains.

Module 5: Historic-Era Artifacts (Davidson)

Select Identification Guides and Related Sources:

Bottles and Glass

Firebaugh, Gail S. 1983. An Archaeologist's Guide to the Historical Evolution of Glass Bottle Technology. *Southwestern Lore* 49(2):9-29.

Farnsworth, Kenneth B., and John A. Walthall (editors). 2011. *Bottled in Illinois: Embossed Bottles and Bottled Products of Early Illinois Merchants from Chicago to Cairo, 1840-1880*. Illinois State Archaeological Survey, Champaign, IL

Jones, Olive, and Catherine Sullivan, with contributions by George L. Miller, E. Ann Smith, Jane E. Harris, and Kevin Lunn. 1989. *The Parks Canada Glass Glossary, for the Description of Containers, Tableware, Flat Glass, and Closures*. Revised Edition, Studies in Archaeology, Architecture and History, National Historic Parks and Sites, Canadian Parks Service, Environment, Canada.

Lorrain, Dessamae. 1968. An Archaeologist's Guide to Nineteenth Century American Glass. *Historical Archaeology* 2:35-44.

Miller, George L., and Tony McNichol. 2012. Dates for Suction Scarred Bottoms: A Chronology for Early Owens Machine-Made Bottles. *Northeast Historical Archaeology* 41(1):75-95.

Ceramics

Hunter, Robert, and George L. Miller. 1994. English Shell Edged Earthenware. *The Magazine Antiques* (March):432-443.

Hunter, Robert, and George L. Miller. 2009. Suitable for Framing: Decorated Shell-Edge Earthenware. *Early American Life* (Aug):8-19.

Kwas, Mary L. 1999. *A Guide to The Identification of Historic Refined Earthenwares*. Arkansas Archeological Survey, Fayetteville.

Schedule:

Apr. 8: Identification of major classes of historic-era artifacts.

Apr. 15: Analytical and quantitative approaches to historic-era artifacts.

Apr. 22: Practical exercise and exam in the identification, cataloging, and quantification of historic-era artifacts.