

Archaeology

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Stewart 218
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Course Description and Content

Anth 2030 (3 credit hours; no pre or co requisites). Archaeology is the study of past human behavior through the analysis of material remains left behind. Since more than 99% of human existence on earth occurred prior to writing and historical records, scientific knowledge of our lengthy *prehistory* must come from archaeology. This course reviews the goals, theories, data analysis, and methods of archaeological research, especially as influenced by the natural sciences. Emphasis is placed on applying the scientific method to address archaeological questions. The focus is thus on what scientific archaeologists want to learn about the past and how they learn it. We will explore and analyze examples of archaeological research and materials from a diverse set of times and places, although western North America will be emphasized. The focus will thus be on especially interesting case studies of archaeological research. These range from reconstructing the initial peopling of the New World through the study of human skeletal remains to enhancing the historic records of the ill-fated Donner Party through archaeological investigations of the material remains they left behind.

Course Objectives

At the end of this course, you will:

1. Understand the goals, primary theories and methods, and value of archaeology to modern society
2. Be able to identify and interpret common classes of archaeological data
3. Understand the details and arguments surrounding interesting issues involving the human past
4. Have gained experience in the critical evaluation of arguments and evidence related to archaeology and the explanation of human variation using evolutionary and social theory
5. Be more interested in archaeological issues and materials and the protection of archaeological resources

These goals will be achieved through lectures, discussion, readings, and a number of hands-on laboratory sessions.

Reading Material:

Articles: I will assign a number of articles periodically that will be posted on the course Canvas site (Anth 2030-001 fall).

Grading:

There will be two midterm exams (Tues., Sept. 26 and Tues., Nov. 7) a final exam (Wed., Dec. 13: 8:00-10:00 am), and five laboratory practical quizzes. The midterms and final are worth 100 points each (300 total) and will be composed of multiple choice and short answer/essay questions. The written answers will be evaluated on both form and content. Material on these exams will be derived from lectures, lab sessions, movies, and the readings. The lab practical quizzes will be based on material covered in the six laboratory sessions and will be worth 20 points each (100 total). There will be no make-up lab practical quizzes. Final grades will be determined on the basis of the cumulative percentage of points obtained on the exams and lab quizzes following the scale of: 90-100% = A- to A; 80-89% = B- to B+, 70-79% = C- to C+ and so on. *Attendance is **mandatory** to be successful in this class.* Relevant Holidays: Fall Break, October 8-15; Thanksgiving, Nov. 23.

Schedule of lectures, laboratories, and examinations

Dates	General Topics (<i>Readings</i>)
Aug. 22,24	Goals of Archaeology, The Scientific Method Archaeology as Anthropology and Science Archaeology and the Scientific Method General Goals of Prehistoric Archaeology <i>(Readings: Articles (TBA))</i>
Sep. 5,7,12,14	Formation Processes and Taphonomy Preservation, Ethnoarchaeology, Experimental Archaeology Case Study: Alyawara (Australia) Site Structure Case Study: Taphonomy and the Gatecliff (Nevada) Bighorn Sheep Laboratory Methods I: Taphonomy Lab; Lab Practical quiz I (Sep. 11) <i>(Readings: Articles (TBA))</i>
Sep. 19,21	Chronology Relative Dating Methods: Seriation, Stratigraphy

Absolute Dating Methods: Dendrochronology, Radiometric Methods

(Readings: Articles (TBA))

>>>>MIDTERM 1: TUESDAY, SEPT 26<<<<

Sep. 28, Oct 3,5)

Collecting Archaeological Data

Surveys and Sampling

Case Study: Reese River Valley, Nevada

Excavation: Case Studies from Western North America

(Readings: Articles (TBA))

Oct. 17,19

Prehistoric Technology

Case Study: Prehistoric Projectile Points of the West

Goals of Lithic Analysis, Flintknapping

Laboratory Methods II: Stone Tools

Lab Practical quiz II (Oct. 21)

(Readings: Articles (TBA))

Oct. 24,26,31; Nov. 2

Reconstructing Prehistoric Population Movements and Migrations

Case Study: Human Osteology and the Peopling of the New World

Lab. Methods III: Human Osteology (Introduction; The Cranium)

Lab. Methods IV: Human Osteology (The Post-Cranial Skeleton)

Lab quiz III (Oct 30).

Lab. Methods V: Human Osteology (Age & Sex Determination)

Lab quiz IV (Nov. 4)

(Readings: Articles (TBA))

>>>>MIDTERM 2: TUESDAY, NOV. 7<<<<

Nov. 9, 14,16,21

Reconstructing Past Climate/Environments

Paleovegetation: Pollen, Plant Macrofossils

Case Study: Great Basin Packrat Middens

Case Study: Pleistocene Megafaunal Extinctions

Case Study: Climatic Seasonality and Holocene Artiodactyl Hunting in the West

(Readings: Articles (TBA))

Nov. 28, 30

Reconstructing/Explaining Past Subsistence and Land use

Case Study: Resource Depression and Cultural Complexity in California

Laboratory Methods VI: Avian Zooarchaeology

Lab Practical Quiz V (Dec. 2)

(Readings: Articles (TBA))

Dec. 5, 7

Historic Archaeology

Case Study: The Donner Party

(Readings: Articles (TBA))

>>>>>>**FINAL EXAM: Wednesday, DEC. 13, 8:00-10:00 AM**<<<<<<<

Department and University Policies

ADA Statement: The Americans with Disabilities Act. The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, (801) 581-5020. CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services.

Addressing Sexual Misconduct: Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

Wellness Statement: Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness (www.wellness.utah.edu; 801-581-7776).

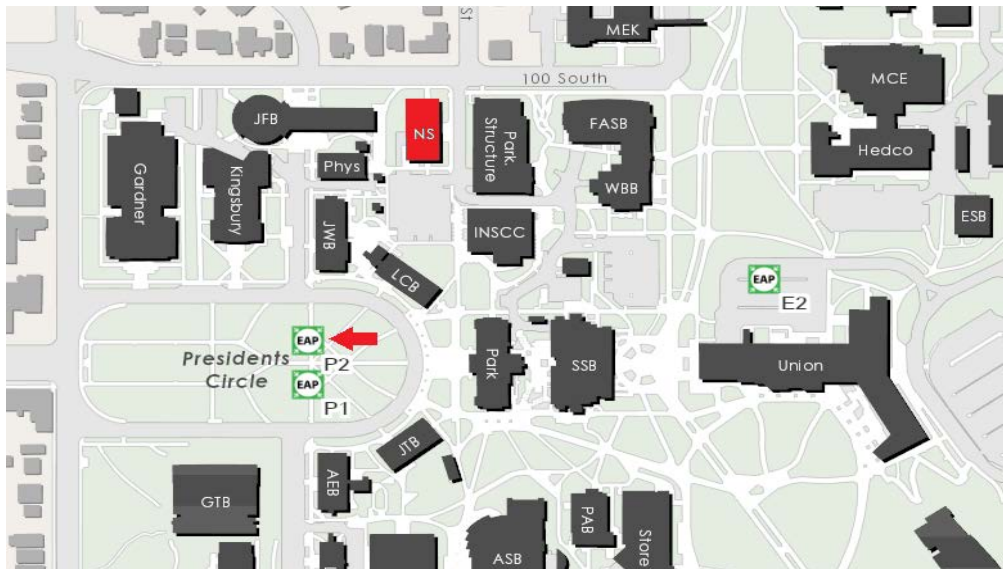
Student Code: (Policy 6-400) All students are expected to maintain professional behavior in the classroom setting, according to the Student Code (regulations.utah.edu/academics/6-400.php). Students have specific rights in the classroom as detailed in S. II of the Code. The Code also specifies standards of behavior (S. III) and academic conduct (S. V). "Students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating" (S. VB). According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors. Students have the right to appeal such action to the Student Behavior Committee.

Incomplete Policy: An "I" will only be given for work not completed because of circumstances beyond the student's control, providing the student is passing the course and needs to complete 20% or less of the work. Valid reasons for an "I" grade include: (a) An illness (documented by a medical statement) that precludes the ability of the student to perform; (b) an accident or situation that prevents the student from physically being present (documentation may be required); (c) Extreme emotional or other mental circumstances that are severe enough to interfere with a student's normal academic performance. If you do receive an "I", do not register for the course again. You must complete the required work in the time agreed by you and the instructor. If the work is not completed within one year, the grade will change to an "E". **Faculty will not accept additional work to change the grade after that one-year period.** If a student

has a problem with the course, please deal with it immediately. It is the student's responsibility to contact instructors and submit necessary forms.

Note: The syllabus is not a binding legal contract. It may be modified by the instructor when the student is given reasonable notice of the modification.

CSBS EMERGENCY ACTION PLAN



BUILDING EVACUATION

EAP (Emergency Assembly Point) – When you receive a notification to evacuate the building either by campus text alert system or by building fire alarm, please follow your instructor in an orderly fashion to the EAP marked on the map below. Once everyone is at the EAP, you will receive further instructions from Emergency Management personnel. You can also look up the EAP for any building you may be in on campus at <http://emergencymanagement.utah.edu/eap>.



CAMPUS RESOURCES

U Heads Up App: There's an app for that. Download the app on your smartphone at alert.utah.edu/headsup to access the following resources:

- **Emergency Response Guide:** Provides instructions on how to handle any type of emergency, such as earthquake, utility failure, fire, active shooter, etc. Flip charts with this information are also available around campus.
- **See Something, Say Something:** Report unsafe or hazardous conditions on campus. If you see a life threatening or emergency situation, please call 911!

Safety Escorts: For students who are on campus at night or past business hours and would like an escort to your car, please call **801-585-2677**. You can call 24/7 and a security officer will be sent to walk with you or give you a ride to your desired on-campus location.