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ANTY 466.01: Archaeological Survey

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INSTRUCTOR: Kelly J. Dixon  
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Office hours: Mondays 1:45-3:00 pm; Wednesday afternoons by appointment.

Teaching Assistant/M.A. Thesis Researcher: Nikki Manning, nikki.manning@umontana.edu

Course Description: Archaeological survey is the process of looking for archaeological sites. This is an introductory course in archaeological field methods that will provide exposure to general survey techniques, map-making, excavation, historical research, laboratory analyses, and report write-up. At the conclusion of this class you will have acquired the ability to:

- Locate, survey, document/map, and interpret cultural/heritage resources
- Identify the elements of a completed site form
- Locate/place cultural resources on a 7.5 minute USGS map
- Understand how a GPS (Global Positioning System) unit works
- Maintain a field notebook
- Understand the methods of various types of archaeological sites and investigations
- Get a sense of archaeological technology such as laser scanning, digital imaging applications, GIS, etc.
- Explore archival resources in the Mansfield Library
- Understand basic methods for cleaning, cataloguing, and curating artifacts
- Explain the National Historic Preservation Act (NHPA) Section 106 process for survey in the U.S.
- Understand the basic tenets of urban archaeological survey for MSU Underground Project
- Understand the steps involved with researching historic buildings and cultural landscapes in western Montana

REQUIRED TEXTBOOK:
Heather Burke, Claire Smith, and Larry Zimmerman  

NOTE: pdfs of pertinent readings, such as these, will be assigned throughout the semester and posted on the course website.

Alberti, Marina, John M. Marzluff, Eric Shulenberger, Gordon Bradley, Clare Ryan, and Craig Zumbrunnen  
Anschuetz, Kurt F., Wilshusen, Richard H. and Scheick, Cherie L.

Baumler, E.
2002 The Haunting of Butte’s Quartz Street Fire Station. Montana: The Magazine of Western History; 52(1): 76-78.

Fox, Richard A., Jr. and Douglas D. Scott

Grimm, Nancy B., J. Morgan Grove, Steward T.A. Pickett, and Charles L. Redman

King, Thomas
1998 Cultural Resource Laws and Practice, Altamira Press, Walnut Creek, California.

Low, S.

McAlester, Virginia and Lee McAlester

Compton, Robert
1986 Geology in the Field by John Wiley and Sons.

Melnick, Robert Z.


Smith, Minie
2012 The Missoula Mercantile: The Store that Run an Empire, Charleston, South Carolina, The History Press.

Valentino, A.

USEFUL WEBSITES:
Missoula Historic Underground Project Facebook Page: https://www.facebook.com/missoulahistoricundergroundproject

Directory of archaeological societies and journals: http://archaeology.about.com/blmokedir.htm


Rock Art Documentation: http://www.arara.org/Recording_Manual.pdf “...the best free textbook on rock art students can have...” - Tim Urbanzak

3-D Scanning: http://archive.cyark.org/ (info source for 3D scanning)

FIELD SUPPLIES:
You need the following materials for this course:
1. Directional compass (class will supply some for training purposes, but it is always good to have your own for survival)
2. Field notebook
3. Tape measure – be sure it is metric AND English (i.e. centimeters/meters and inches/feet)
4. Head lamp and/or flashlight
5. Digital camera – only IF you already own one (please do not buy on special for this class!)
ATTENDANCE:
As this is an upper-level class, complete attendance is expected, and attendance will help make decisions about a student’s final grade in borderline cases. Also, there will be some in-class projects and participation exercises AS WELL AS WEEKEND FIELD EXPERIENCES/FIELD TRIPS that require attendance to get full points.

GRADERS:
You will be assessed on the basis of the following assignments:

1. Project 1: MSO Underground Task A (Feature Forms, Photos) 100 points
2. Project 2: MSO Underground Task B (Archival Inventory) 100 points
3. Project 3: MSO Udrgrnd. Report Section, Map, Other, Presentation 100 points
4. Your field notebook (due last regular class) 100 points
5. Participation (may include in-class experiences and hands-on projects) 100 points

TOTAL 500 points

I will assign +/- grades and final grades will be based upon the following average scores for the journals, exam, research paper and in-class, exercises and participation: A (100-95), A- (94-90), B+ (89-88), B (87-83), B- (82-80), C+ (79-78), C (77-73), C- (72-70), D+ (69-68), D (67-63), D- (62-60), F (59 or less).

STUDENTS WITH DISABILITIES:
The Department of Anthropology is committed to equal opportunity in education for all students, including those with documented physical disabilities or documented learning disabilities. University policy states that it is the responsibility of students with documented disabilities to contact instructors DURING THE FIRST WEEK OF THE SEMESTER to discuss appropriate accommodations to ensure equity in grading, classroom experiences, and outside assignments. The instructor will meet with the student and the staff of the Disability Services for Students (DSS) to make accommodations. Please contact DSS (243.2373, Lommasson Center 154) for more information.

COURSE SCHEDULE:
**Week 1**  
Wednesday, August 28
Syllabus Handout; Introduction to the Missoula Historic Underground Project: “getting the lay of the land” (Nikki Manning will introduce ongoing research)

**Homework for next week:** Prepare a list of experiences that you have, if any, related to archaeological field work, map-making/GIS, architectural drawing, photography, etc.

**Week 2**  
Wednesday, September 4
Course Intro, Student Experience Discussion, Field Notebooks, Site Forms, Archaeological “Site Types” in MT

BRING YOUR TEXTBOOK AND SYLLABUS TO CLASS TODAY!

**EXTRA CREDIT IF YOU VOLUNTEER AT FIRST FRIDAY EVENT!**
Bonus points for assisting with Minie Smith’s First Friday event: Missoula Mercantile, Friday, September 6, at 4 pm

**Week 3**  
Wednesday, September 11
Topo Maps, Compass, UTMs, Survey Transects, Grids, Sanborn Maps

Archaeological Survey Syllabus
Week 4  Readings
Wednesday, September 18
Poacher Gulch Prep, HABS Standards for Documenting Historic Structures  Burke et al. Chapter 6
HABS Guidelines:  
http://www.nps.gov/history/hdp/standards/HABS_drawings.pdf

Week 5  Readings
Wednesday, September 25
MSO Underground: Intro to the “Merc”: We will go downtown to tour the Missoula Mercantile Building and Basement to Prepare for Field Documentation  Poacher Gulch Prep readings TBA
OPTIONAL READING: Minie Smith

Saturday, September 28
FIELD TRIP TO POACHER GULCH, NEAR PLAINS, MONTANA

Week 6  Readings
Wednesday, October 2
MSO Underground: More urban survey fieldwork  Burke et al. Chapter 9

Week 7  Readings
Wednesday, October 9
MSO Underground: More fieldwork and/or POSSIBLE Coloma Field Trip if we get done with the Merc

Week 8  Readings
Wednesday, October 16
MSO Underground Archival Research: Visit K. Ross Toole Archives for an Overview with Archivist Donna McCrea; then we will spend the rest of the class working with collections in the Archives.  Review Burke et al. pp. 191-193, 218

HOMEWORK Assignment: Annotated Inventory of Archival Documents DUE: November 20

Week 9  Readings
Wednesday, October 23
MSO Underground Archival Research: K. Ross Toole Archives, Cont’d  No readings: homework time

HOMEWORK Assignment: Continue Your Annotated Inventory of Archival Documents DUE: November 20

Week 10  Readings
Wednesday, October 30
CRM Laws and History, NHPA, Cultural Landscapes, Landscape Archaeology, and Environmental Change  Burke et al. Chapter 8
OPTIONAL: Burke et al. Chapter 7
OPTIONAL: Melnick 1980, 1985

Week 11  Readings
Wednesday, November 6
Archaeology of Battlefield Landscapes  Fox and Scott 1991:92-103
Tentative: Guest Lecture

Week 12  Readings
Wednesday, November 13
Excavation Brief, Artifact Identification  Burke et al. Chapter 5

Archaeological Survey Syllabus
Week 13  
Wednesday, November 20  
Artifact Cataloguing and Curation and the UMACF  
Burke et al. Chapter 10

Week 14  
Wednesday, November 27  
THANKSGIVING (NO CLASS – TRAVEL DAY)

Week 15  
Wednesday, December 4  
Synthesizing archaeology, history, preservation, technology, etc.  
Presentations and Summaries of the Semester’s Findings

DRAFTS OF Feature Forms, Maps, Photo Files, Drawings DUE FOR REVIEW  
Field Notebooks Due!

Week 16:  
Thursday, December 12: Final Exam time Slot: 10:10 am -12:10 pm  
Final Exam Activity TBA  
FINAL Report/Underground Documentation Due!