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### ANTY 466.01: Archaeology Survey

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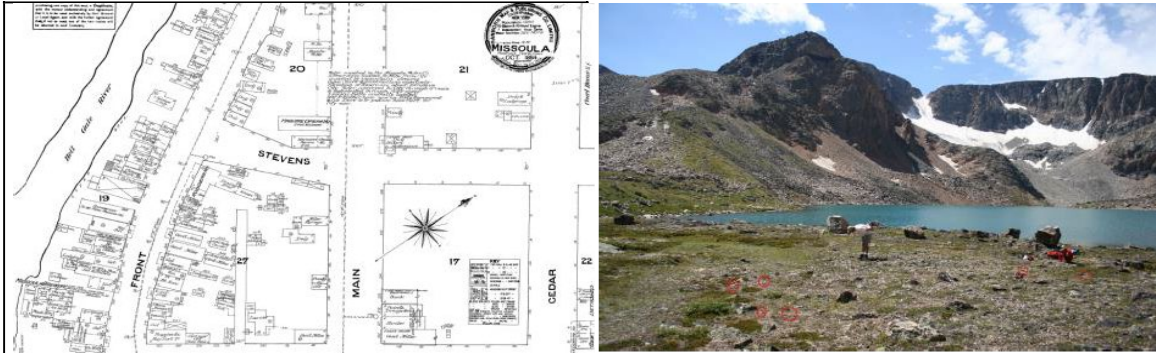
# ANTHROPOLOGY 466 Archaeological Survey

## COURSE SYLLABUS

FALL 2021

THE UNIVERSITY OF MONTANA, DEPARTMENT OF ANTHROPOLOGY

THURSDAYS 11:00 AM – 1:50 PM in Social Sciences 262



Images include: (Left) historic Sanborn Insurance map showing Missoula in 1884; (right) lithic scatter at Turgulse Lake, Beartooth Range (photo by Timothy R. Urbaniak); example of mapping by annotating digital photos.

### INSTRUCTORS:

#### Nikki Manning

Email: [nikki.manning@umontana.edu](mailto:nikki.manning@umontana.edu)

Office hours: By appointment

#### Kelly J. Dixon

Email: [kelly.dixon@mso.umt.edu](mailto:kelly.dixon@mso.umt.edu)



- **Mask use is REQUIRED within the classroom.**
- UM recommends students get the COVID-19 vaccine. Please direct your questions or concerns about vaccines to Curry Health Center.
- Please keep your distance from others as much as possible.
- Assigned seats and class attendance will be recorded to support contact tracing efforts.
- Eating in class is discouraged within the classroom as it requires the removal of masks.
- Stay home if you feel sick and/or if exhibiting COVID-19 symptoms and contact the Curry Health Center at 243-4330.
- If you are required to isolate or quarantine, you will receive support in the class to ensure continued academic progress.

### **ABOUT THIS CLASS:**

Throughout the semester, remember that this is **your** class. What you get out of this class is a direct result of what you are willing to put into it. We will work very hard to tailor topics, readings, projects, and experiences to your interests so that you can relate the survey methods taught in this class to your current life and future career

goals. To do this, you will need to let us know what those interests are and if you do not know just yet, to not be shy to say so. Bring your energy and best self and we will have a very productive semester.

### **COURSE DESCRIPTION:**

Archaeological survey is the process of identifying and documenting archaeological sites. This is a course in archaeological field methods that provides students with a mix of experiences and exposure to general survey and sampling techniques, map-making, site form preparation, historical research, laboratory analyses, report write-up and/or NRHP evaluation, experimental field methods, and more. At the conclusion of this class students will have visited field sites<sup>1</sup> and acquired the ability to:

- Locate, survey, assess, document/map, and interpret cultural heritage resources, including archaeological remains, historic structures, plants, water sources, and other resources, with special emphasis on resources that are culturally significant to descendant communities.
- Understand and apply field procedures for documenting and reporting on such resources, including precise note-taking and photographic documentation.
- Employ ethical practices in field, lab, office, and curation settings.
- Appreciate the cultural protocols for using and documenting traditional cultural resources like plants.
- Identify the contents of a site form and complete a 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.
- Comprehend various types of archaeological sites, CRM practices and laws, as well as the various theories and methods of cultural heritage investigations.
- Understand how to locate and integrate archival, oral, and other evidence with "data" from archaeological field sites.
- Recognize how the systematic process of field documentation dovetails with the process of collecting, processing, and curating artifacts.

### **READINGS AND ONLINE RESOURCES:**

#### **REQUIRED TEXTBOOK:**

Heather Burke, Claire Smith, and Larry Zimmerman

2008 *The Archaeologist's Handbook* (North American Edition), AltaMira Press, Walnut Creek, California.

#### **OPTIONAL TEXTBOOKS:**

Manning, Nikki

2015 *Historic Underground Missoula*, History Press, Arcadia Publishing, Charleston, South Carolina.

McCleary, Timothy

2015 *Crow Indian Rock Art: Indigenous Perspectives and Interpretations*, Routledge, New York and London.

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**ADDITIONAL READINGS** – See **Course Bibliography** for additional pdfs or copies of pertinent readings from some of the sources below [but not limited to these] will be assigned throughout the semester.

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#### **FIELD SUPPLIES:**

1. Directional compass (class will supply some for training purposes, but it is always good to have your own for survival);
2. Field notebook and appropriate writing tools;
3. MAYBE a tape measure and ruler – be sure they are metric **AND** English (i.e. centimeters/meters and inches/feet);
4. Smartphone and/or GPS Unit and/or GPS app on your Smartphone (we will not require you to purchase these, so please do not fret if you do not have them);

5. Digital camera – only IF you already own one (please do not buy one special for this class!); also, the Smartphone camera should be okay, depending on your project;
6. Photo scale (we have some, so this is not required, but nice to have on hand if you are building a digkit).

**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. There will also be some occasional in-class projects and participation exercises.

**ACADEMIC INTEGRITY:**

The University of Montana expects its students to be academically honest, particularly in regard to plagiarism. “Plagiarism is the representing of another’s work as one’s own.” Both copyright laws and University policies are rigid as concerns plagiarism. Consult the current “Student Conduct Code” for details regarding penalties for plagiarism.

**GRADES:**

|   |                  |
|---|------------------|
| <b>Assignment 1:</b> Practice the Paperwork – Find and/or create a site form.<br><b>Due: September 16</b>   | 50 points        |
| <b>Assignment 2:</b> Archives Assignment<br><b>Due: October 7</b>   | 50 points        |
| <b>Assignment 3:</b> Project Photos/Photo Log Draft<br><b>Due: October 21</b>   | 50 points        |
| <b>Assignment 4:</b> Sketch Map Draft<br><b>Due: October 28</b>   | 50 points        |
| <b>Field Notebook</b><br><b>Due: December 9</b>   | 100 points       |
| <b>Final Project:</b> Completed Site Form, Report-Quality Map, Photos, Files, and Log<br><b>Draft Due: November 11 (Note that we don’t have class this week, but drafts are still due.)</b><br><b>Final Due: December 9</b> | 100 points       |
| <b>Final Project Presentation</b><br><b>Due: December 9</b>   | 100 points       |
| <b>Attendance and Participation</b> (includes class discussion and in-class assignments)  | 100 points       |
| <hr/> TOTAL   | <hr/> 600 points |

**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 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 ([umt.edu/dss](http://umt.edu/dss); 406. 243.2373) for more information.

## Course Schedule

### Week 1 – September 2

#### Welcome and Introduction to Archaeological Survey

- Syllabus, Course Content, and Moodle
- Student Introductions, Skills, Expectations, Concerns
- Field Trip Discussion (Managing Logistic and Expectations)
- Archaeology and Past Pandemics in Our Back Yard: Memorial Row in Context
- Field Notebooks and Documentation

### Week 2 – September 9

- Site Forms Introduction
- “Site Types”
- Research Design (*Always be thinking of clearly presenting your goals, methods, outcomes, and paths for future work!*)
- Final Project Discussion

### Week 3 – September 16

- Survey Tools: Topo Maps, Compass Use, UTM's, Survey Transects, Grids, Sanborn Maps, and others
- Pedestrian Survey

#### **Assignment 1 Due Today**

### Week 4 – September 23

- Data Management
- Field/Site Photography Overview

#### **Visit to the Mansfield Library Archives and Special Collections**

### Week 5 – September 30

- Urban and Buildings Archaeological Survey (*in preparation for field trip downtown next week*)
- Community-based Archaeology
- LiDAR Images of Project Site
- Making a sketch map

### Week 6 – October 7

- Field Trip to project site
- Walking tour Downtown Missoula

Class will be outdoors today. Please be sure to dress for the weather and wear comfortable walking shoes.

#### **Assignment 2 Due Today**

### Week 7 – October 14

#### **Special Guests: Institute for Canine Forensics**

- Possible field trip over to Lower Rattlesnake location of the Poor Farm Cemetery

### Week 8 – October 21

- Cultural Resource Management (CRM) Laws, Overview, History, Ethics
- Stewardship and Preservation

#### **Special Guests: Damon Murdo, Cultural Records Manager and Jessica Bush, State Archaeologist from the State Historic Preservation Office**

#### **Assignment 3 Due Today**

#### **Week 9 – October 28**

- Homestake Pass Debrief and Discussion

**Special Guests: Ayme Swartz and Mike Ryan from the Forest Service (Beaverhead Deer Lodge National Forest)**

**Assignment 4 Due Today**

#### **Week 10 – November 4**

- Excavation Brief
- Large Scale Survey
- Fire Archaeology

#### **Week 11 – November 11**

**Veterans Day – NO CLASSES**

**Final Project Drafts 4 Due Today**

#### **Week 12 – November 18**

- Combining Indigenous systems of knowledge/understanding with Western science
- Indigenous Perspectives on Archaeological Survey
- Archaeology and Social Justice

#### **Week 13 – November 25**

**Thanksgiving Break – NO CLASSES**

#### **Week 14 – December 2**

**Tech, and 21<sup>st</sup>-Century Arch Survey**

- Subsurface Imaging
- GIS
- 3-D renditions
- Photogrammetry
- And more!

**Special Guests: Dr. Timothy Rostov Urbaniak, Montana State University Billings (retired) and Kate Kolwicz, University of Montana PhD Student**

#### **Week 15 – December 9**

**Future of Archaeological Survey**

- Synthesizing archaeology, history, preservation, technology (cataloging and curation, too!)
- Final Project Discussion

**Field Notebooks Due Today**

**Final Projects Due Today**