ANTH 451:

Field School in North American Archaeology

May 17 – June 22, 2023

INFORMATIONAL PACKET

Health and Safety

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Research Laboratories of Archaeology University of North Carolina at Chapel Hill

Notification Plan for Changes to the Regular Schedule

If there is a change in our schedule for the following day, we will announce the change via email by 8:00 pm the previous evening. Please contact us via email as soon as you realize that you're unable to meet at the regular time.

Emergency Procedures and Contact

Please notify the nearest professor or teaching assistant as soon as the situation arises. Should the emergency involve a situation where all of us need to leave the field site quickly, we will text the entire group with instructions.

Please be aware of the nearest clinic and hospital:

Carolina Urgent Care 1840 MLK Jr Blvd, Chapel Hill, NC 27514 984-272-2422 5 miles from our location Duke University Hospital — Emergency Room 2301 Erwin Rd, Durham, NC 27710 919-684-2413 5-6 miles from our location

Pickup Location, if needed Hollow Rock Nature Park 692 Erwin Rd, Durham, NC 27707 *We enter Duke Forest at the Korstian Division's Gate 27, across the street from the park entrance.*

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Preventing Heat Illness

The most dangerous aspect of the work we will be doing is the summer heat. In addition to the steps below, the most important thing you can do to prevent heat-related illness is watch those around you for symptoms of illness and remind each other to stay hydrated!



 Heat illness can strike quickly—learn to recognize the symptoms. Things you need to know:

- Workers with heat illness should stop working, get cool, and Altered mental state can be a sign of heat stroke and requires
 - When treating severe heat illness, cooling is the first priority.

Less Severe

Severe

OFTEN FATAI

Cooling is key. Know the symptoms and treatment of heat illness.

What to Do Signs and Symptoms Symptoms can occur in any order. For example, a person will not always experience heat cramps before they suffer from heat exhaustion. **Heat Rash/Prickly Heat** • When possible, a cooler, less humid work environment is the best Red cluster of pimples or small blisters, usually on neck, upper treatment chest, groin, under breasts, and in • Keep rash area dry elbow creases Powder can be applied to increase comfort Extensive areas of skin that do • Do not use ointments or creams, as they may impair cooling—warm, not sweat on heat exposure, but moist skin can make the rash worse present gooseflesh appearance that subsides with cool environments **Heat Cramps** • Muscle cramps, pain, or spasms • Drink fluids every 15 to 20 minutes and eat a snack or sports drink in the abdomen, arms, or legs Avoid salt tablets • Get medical help if the worker has heart problems, is on a low sodium diet, or if cramps do not subside within 1 hour Heat Syncope (Fainting) . Sit or lie down in a cool place when beginning to feel faint or dizzy Fainting, dizziness, or lightheadedness after standing or Slowly drink water or clear juice suddenly rising from a sitting/ lying position

Heat Exhaustion

 Headache Nausea Dizziness, weakness Irritability Thirst, heavy sweating Elevated body temperature Decreased urine output 	 Call for medical help or take worker to a health facility for evaluation and treatment Stay with worker until help arrives Remove worker from hot area and give liquids to drink Remove unnecessary clothing, including shoes and socks Cool worker with water, cold compresses, an ice bath, or fans Encourage frequent sips of cool water 	
Heat Stroke		
 Confusion, altered mental state, slurred speech, loss of consciousness Hot, dry skin or profuse sweating Seizures Very high body temperatures Fatal if treatment delayed 	 This is an emergency! Call for emergency care immediately! Move worker to a cool area and remove outer clothing Cool worker with water, cold compresses, an ice bath, or fans Circulate air around worker to speed cooling Place cold, wet cloths or ice on head, neck, armpits, and groin Stay with worker until emergency medical services arrive 	

HEAT STRESS First Aid for Heat Illness



Case Study: Heat Stroke

A 44-year-old male worker died of heat stroke while working on a North Carolina farm. The man had been working in the fields for about a week. On August 1st, the heat index was between 100 °F and 110 °F. Around 3 p.m., the worker complained to the crew leader that he was feeling ill. He drank some water and was driven to the employee housing and left alone. He was found unconscious 45 minutes later. Emergency personnel took the worker to the hospital, where he was pronounced dead. His core body temperature was 108 °F.

Lessons Learned

• Feeling ill while working in the heat is a serious warning sign. Any employee who reports feeling unwell during



Photo by ©Thinkstock

- work in hot conditions could have heat exhaustion, which can quickly progress to heat stroke if not treated.
- Proper first aid for someone with suspected heat exhaustion or heat stroke involves COOLING the body as quickly as possible—not simply drinking water.
- People with severe heat illness do not always recognize the risks they face. If a worker shows signs of heat exhaustion or heat stroke, do not leave him or her alone until he or she receives medical attention.



Poison Ivy

Leaves of three, let it be; berries white, take flight.

Poison ivy is a vining plant with leaves vary in their size and color, depending on the season, but are generally green and shiny in the summer. Leaves can have smooth or jagged edges. Poison ivy has greenish flowers and green or off-white berries. Most significantly for identification, the leaves always occur in sets of three.

Many people get a rash from poison ivy, which is caused by an oil found in the plants. The itchy rash often does not appear until 12–72 hours after you come into contact with the oil. The rash is not contagious, but be aware that the oil can transfer from clothing or tools to your skin.

If you are exposed to poison ivy, wash the area with soap and water; also consider using tecnu, found in most pharmacies. Alcohol wipes may also be used to remove the plant oils from your skin. Wash tools, clothes, and anything else (like a field pack) that may have touched the plant.



Poison ivy mature plant (above), new leaves (below left), hairy vine on tree trunk (below right)

Try Tecnu if exposed





Poison ivy rash

If a rash does form, it typically goes away within two to three weeks. If you have a serious reaction, you should see a doctor right away. Swelling is a sign of a serious reaction especially swelling that makes an eye swell shut or causes your face to swell. If you have trouble breathing or swallowing, visit the emergency room.



Ticks and Chiggers

Ticks are parasites that live off the blood of other animals. Ticks may just crawl on the skin, but can also attach to a host with a barbed feeding tube.

Blacklegged or Deer ticks can transmit pathogens through their saliva, such as Lyme Disease, so it is important to do a tick check at the end of each day in the field. Be especially careful to check around the tops of your shoes and bottoms of your pant legs, as well as around your hairline.

If you do find a tick that has attached, use a pair of tweezers to grasp the tick firmly, and then gradually pull, gently at first but then with increasing pressure, until it releases. It is a good idea to then place the tick in a piece of tape and label it with the date you removed it. Monitor the area you were bitten for any signs of a rash. If a circular rash develops or if you experience other unusual symptoms (like a fever), see your doctor (and bring the tick)!

For more information on ticks and Lyme Disease, visit the CDC's website at <u>https://www.cdc.gov/lyme</u>.



Chigger (magnified – actual size about 1 mm)



Ticks vary in size throughout their life cycle



Chiggers are tiny, red mites whose bites cause irritation to the skin in the form of red bumps that look like pimples or hives. You will likely not see the chigger or notice at the time you are bitten. But the bite area will become very itchy by the end of the day!

Bites can be treated by washing with soap and water and applying corticosteroid creams or calamine lotion. Benadryl also can help reduce inflammation.

Avoid chiggers by not sitting directly on the ground for extended periods or on objects like rotting logs.

A COMPREHENSIVE GUIDE TO YELLOW STRIPEY THINGS



CARPENTER BEE

-ACTS LIKE IT'S TOUGH, BUT CAN'T ACTUALLY HURT YOU -HAS NO CONCEPT OF WHAT GLASS IS -LIVES IN YOUR FENCE -FLIES AGGRESSIVELY TO TRY AND SCARE YOU AWAY



HONEYBEE

-IS THE BEE THAT NEEDS HELP THE MOST -EXCELLENT POLLINATOR -VERY FRIENDLY -CAN ONLY STING ONCE



HOVERFLY

-WEARS YELLOW STRIPEY UNIFORM TO SCARE YOU -ACTUALLY CAN'T DO ANYTHING TO YOU -HANGS OUT IN FIELDS -FOLLOWS YOU IF IT LIKES YOU



-ALSO POLLINATES STUFF VERY WELL

-SO FAT IT SHOULDN'T BE ABLE TO FLY -WILL LET YOU PET IT WITHOUT GETTING AGITATED -ACTUALLY A FLYING PANDA



PAPER WASP

-LOOKS SCARY, BUT WILL ONLY ATTACK IF PROVOKED -WANTS YOUR FOOD AND WILL FIGHT YOU FOR IT -STING HURTS LIKE THE DEVIL -WILL CHASE YOU IF YOU SWAT AT IT -HAS NO CONCEPT OF PERSONAL SPACE



-NEVER LEAVES YOU ALONE -WILL STING YOU JUST FOR THE HECK OF IT -IS JUST A JERK



DIRT DAUBER

-ALMOST NEVER STINGS ANYTHING EXCEPT SPIDERS -BUILDS NEST IN THE GROUND -HOARDS SPIDERS IN SAID NEST -COOLEST LOOKING OF THE WASPS



CICADA KILLER

-LOOKS LIKE SATAN'S NIGHTMARES -EXCLUSIVELY EATS CICADAS -CAN STING YOU, BUT USUALLY WON'T -STILL PRETTY TERRIFYING

Snakes

While the state of North Carolina has six venomous snake species, only one species the copperhead—is found in Duke Forest.

Notice the broad, flat, triangular-shaped head and distinctive, dark, horizontal hourglass bands from head to tail.

If you see a copperhead, do not approach it. Move slowly and notify others in the area. A copperhead will typically not bite unless provoked (such as when it has been stepped on). The first bite is typically a warning and does not dispense a large amount of venom.

While you may encounter other snakes in the forest or water, the 17 other snake species that live in Duke Forest are not venomous. Some common non-venomous snakes are shown here. Notify RLA instructors of all snake encounters!





Black Racer

Juvenile rat snake



Copperhead, adult (left) and juvenile (below)



Eastern Kingsnake (eats Copperheads!

Several other species can be confused for a copperhead, especially the juvenile rat snake (lower left). To view pictures that compare copperheads to other common snake species, check out the following web page: https://www.virginiaherpetologicalsociety.com/venomous-look-a-likes/copperhead-look-a-likes/copperhead-look-a-likes/copperhead.html#.

SHOVEL TEST PIT EXCAVATION FORM

RESEARCH LABORATORIES OF ARCHAEOLOGY University of North Carolina at Chapel Hill

site 31 OR 812/ Duke Forest Areal	Screen Size 1/411	
T STP No or Grid Coordinates <u>859 N 997 E</u>	Artifacts 5 ceranic stards, 3 lithic Flakes, burned animal bone	
Date 3/14/2022	Photograph? OYes or WNo	
Excavated By*	Feature Noted? Yes or ONo	
Recorded By* N. AdAMS	Feature Description Dark SOI with Charcoal and calcined	
*Include first initials and last names.	DONE	
comments Density of artifuets increases in dark Genture-like soil layer		

		1		
Layer	Depth (cm bs)	Soil Color (color code + name)	Soil Texture	Artifacts
1	0-38	10 YR 314	silty days	(Shank
		dark yellowish bra	lotm	
2	20-55	7.58F313	sitty clay	4 sherds, 3 Alal
	38 35	dark brown	10 AM	feature - like soil
3	55-60	7.5 YR 518	class	subsoil
		Strong brown	Can 0	
4		0		
5				

UNIT EXCAVATION FORM

RESEARCH LABORATORIES OF ARCHAEOLOGY University of North Carolina at Chapel Hill

Site $31Mb543$ Unit No. $223N445E$ (based on SW corner) Unit Type $1M \times 1M$ Level 3 Date Started $5/26/2053$ Date Completed $5/27/2053$	Screen Size <u>1/4</u> " dry & Type Soil Color <u>10 YR 3/4 Jark yellowish brnd</u> (color code + name) Soil Texture <u>Sardy clay (DAM</u> Artifacts <u>opprox. 50 pottery</u> <u>Sherds, 1 projectly point</u> , <u>approx. 100 flakes</u>		
Excavated By* <u>R. Newton</u> Recorded By* <u>G. Swith</u>	Flot Sample Taken () Yes, L or No Other Samples Taken		
*Include first initials and last names. Comments ArtiFact density increased with depth. Postholes and small pit identified at the base of Level 3.			
Plan View Drawn Q Yes or \bigcirc No $ $ Reason $\underline{1 Cat Vres}$ \underline{Prese} \underline{F} Datum corner $\underline{5W}$ Datum elevation (m) $\underline{994.632}$			
ELEVATIONS – TOP OF LEVEL			
Location SE SW cm below datum 32 32 Grid elevation (m) 994.312 994.312	<u>NW</u> <u>34.5</u> <u>33</u> <u>73</u> <u>994.287</u> <u>994.302</u> <u>994.287</u> <u>994.302</u>		
ELEVATIONS – BOTTOM OF LEVEL			
Location cm below datum 40 41 Grid elevation (m) 994.232 994.222	<u>NW</u> <u>43.5</u> <u>40</u> <u>41</u> <u>94.197</u> <u>994.232</u> <u>994.222</u>		



FEATURE EXCAVATION FORM

RESEARCH LABORATORIES OF ARCHAEOLOGY University of North Carolina at Chapel Hill

site 31 Mb 543	Screen Size 1/16" WETUGCREEN		
Feature No. $16 E^{1/2}$ In Unit $223 N 445 E$	Soil Color 7.5 YR 3/3 Jack brown (color code + name)		
Center Pt 223.552N 445,461E	Soil Texture Sandy OAM		
Feature Type Pit	Artifacts 45 shouds,		
Zone J	animal bone, 2 projectile		
Date Started <u>5/29/2053</u>	points, clay pipe bound fixy		
Date Completed $\frac{5/30/2053}{2053}$	Flot Sample Taken Yes, 10 L or O No		
Excavated By* R. Newfon	Other Samples Taken Sail for Soil		
	chemistry tests		
Recorded By* <u>G. Suith</u>	3		
*Include first initials and last names.			
Comments Large stands laying at base of ZONE UKely			
Same vessel. Mapped and bage	yed as A, B, C		
Dimensions & Orientation $65^{\circ}N-S$ (max) x $45^{\circ}E-W$ (min) x $48^{\circ}cm$ (depth base of zone)			
Bisection Line Points First point designated Grid Coordinate	es 223,198 N 445,500 E		
Second point designated Grid Coordinate	es 223, 899 N 445. 500 E		
Datum Location P+A Datum elev	ation (m) 994, 852		
ELEVATI	ONS		
Location (describe) N (North) ((center)	s(south) E (East) -		
Top of Zone (cmbd) <u>35</u> <u>47</u>	31 34		
Bottom of Zone (cmbd) <u>39</u> <u>57</u>	35 38		



May 16 2008, Friday

Today Rachel, Mary Both, and I continued to work on the same area. We picked up with unit 605R542 which we had half dug on Thursday. Rachel continued to dia and we found a few more sherds. Overall we found a total of 21 sherds, 1 olive glass piece, I piece of charcoal, and I quartz flake. We reached the subsoil and started to trowel. I worked along the norther wall trimming the wall and scraping the floor, Toward the northwest corner, there was a different textured area of soil. It was a less compact sandtexture and strong Brown in color. We are unsure if it is anything important because it is somewhat hard to distingish from the surrounding soil. Also running north to south in the eastern half was a large root remnant, while Mary Beth was Trowelling in the middle of the unit she came across what looked to be a post hole. After cleaning it up, we noted that it was somewhat oval in shape. The Munsell test showed the soil color to be a Dark Reddish Brown. We suspect this is infact a post hole. We need to see more post holes in the area to make a More solid argument for it.

Our next unit we tried was directly south in number 6041R 542. Mary Both dug the unit because there were a lot of roots and an old tree stimp that was removed eardier for a shorel test. This unit was also shallower because it was on a slight edge of the gully nearby. The southern hall was only about 6 cm deep. We did a soil sample for this unit. Overall we found 6 sherds and 1 wrought nail. When we got to trowelling we had to be careful not

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to get too obsessive about cleaning the tree area. It was a mess there so we called it the evil stepchild unit. We trowelled the floor area around the roots and the to make it look the best we could. Some of the center part of the tree remnant was hallow so we had to be careful not to collapse any of the area into it. We was anything it would be located under the tree remnant and would probably be unrecognizable to us.

With all of these B units complete, it was decided that a picture should be taken. Before we could do that we need to clean trowel the entire section. We started at the northern wall and worked our way South. We scrappe at top few millimeters to remove the exess dirt that had been deposited from walking around the section. As we trowelled we noted more parallel striations throughout the units. We believe these to be caused by a mule drawn' plough. The striations More to the horthwest if Standing at the southern wall. They were also found in the units near ours going in the same direction. After the troweling the features became very clear and we now think we have a long trench and a pit with the one post hole.

Level 1 Units Miby M. Not to scale 2ED 1024/8 Next unit? SANDY CLAY 10 Annual Property of Δ Im Trec voot TREE 6072544 6072542 107R542 reature: post hole. $\mathcal{O}_{\mathbf{i}}$ interface of subsoil Dipe stem emberded largerock found here 60612542 Y 1 Feature 7 post hole 605 R 54Z Thure was also a large 8 rock near the root that we removed. A coude 404 R. 542 Shurds were located nearit SE SW NW NE vnit Depths 6062542 10 cm 11,5 m 15 cm 13 cm Label # Q 14cm VITom 13cm 14cm WAR542 0 WAR R. 543 130m 14 cm 12 cm 10 cm

Labeling an Artifact Bag

Properly and systematically labeling an artifact bag preserves essential contextual information. Use a black Sharpie marker to record this information. Write near the bottom of the bag, as much as possible, so that the information can be read when the bag is folded closed. The information recorded will vary slightly depending on whether the artifacts were collected from a shovel test, level in an excavation unit, or a feature. **Double-check all information on the bag to prevent permanent data loss!!**



Soil Description

Archaeologists encounter sand, silt, and clay soils in various combinations. You will need to determine and record soil texture and soil color for each different layer, or horizon, of soil you excavate. Color is determined using a Munsell Soil Color Book, which is a standardized classification system for soil colors. Use the flow chart on the next page to determine soil texture.



Loam is a mixture of clay, silt, and sand. Its composition influences how it is classified. For example, a soil that is 30% clay, 50% sand, and 20% silt is a sandy clay loam.



Week	Talking with Visitors	Posting on Social Media
1) May 18 – 19		
Thursday & Friday	Rosalia Basilio M. & Willard Dodson	Lauren Flach & Sarah Grimes
2) May 22 – 26		
Monday & Tuesday	Henry Haren & Sydney Lorenz	Sydney Mahon & Tessa McGuire
Wednesday & Thursday	Ryan Millis & Kyle Mitchell	Jada Mosley & Ainsley Thompson
Friday	All	All
3) May 29 – June 2		
Monday	Holiday (site closed)	Holiday (site closed)
Tuesday & Wednesday	Lauren Flach & Sarah Grimes	Rosalia Basilio M. & Willard Dodson
Thursday & Friday	Sydney Mahon & Tessa McGuire	Henry Haren & Sydney Lorenz
4) June 5 – 9		
Monday & Tuesday	Jada Mosley & Ainsley Thompson	Ryan Millis & Kyle Mitchell
Wednesday & Thursday	All	Rosalia, Willard, Lauren, & Sarah
Friday	All	All
5) June 12 – 16		
Monday & Tuesday	All	Henry, Sydney L., Sydney M., & Tessa
Wednesday & Thursday	All	Ryan, Kyle, Jada, & Ainsley
Fridav	All	All

Public Outreach and Social Media Schedule ANTH 451: Field School in North American Archaeology

Public Outreach Introductory Script ANTH 451: Field School in North American Archaeology

We will be interacting with the public on a daily basis because we will be surveying and excavating adjacent to public trails in Duke Forest. As part of the field school requirements, you will have assigned days when you will be responsible for talking with people passing by who are interested in learning about what we are doing and finding. You will also be responsible for providing content for RLA Facebook and Instagram posts that document our daily activities, findings, and observations.

The script below provides some basic information to get you started talking with visitors. Please use what you're learning on a daily basis (field, discussions, and readings) to expand on them.

• WHO are we?

We're students participating in an archaeological field school taught by Drs. Heather Lapham and Mary Beth Fitts from the Research Laboratories of Archaeology at the University of North Carolina, Chapel Hill. Joy Mersmann and Devin Henson are the graduate teaching assistants.

• WHAT are we doing?

We're digging small holes and sifting the soil to find artifacts and features that can help us understand how Native Americans and colonists used this land before it became Duke Forest. We keep detailed notes of what we're doing, so that the precise location of what we've found is preserved for the future, along with the artifacts. These materials and notes will be studied and curated at UNC.

• WHERE are we working and WHY?

We're working along New Hope Creek in areas that have significant potential to contain important seventeenth-century Native American settlements. Historical evidence and local tradition suggest the presence of one or more archaeological sites that were occupied when the famous European traveler John Lawson passed through this region in 1701.

We hope our investigations will reveal new insights into Native American land use practices and settlement. The Occaneechi, Adshusheer, Shakori, and Eno Indians built villages in this region from the 1500s to the early 1700s. We are particularly interested in studying how Indigenous peoples shaped the landscape, what natural resources they exploited, where they chose to settle and for how long, and how lifeways changed through time.

• WHAT are we finding?

You'll need to ad lib here based on what we're finding this year. Last year we found fragments of broken cooking pots, chips from making stone tools, and tiny, triangular-shaped arrow points made beginning around 500 years ago. Food remains, such as animal bones and charred plants, were rare due to poor preservation in the contexts that we excavated. However, we did find one seventeenth-century artifact—a small fragment of the bowl of a clay smoking pipe with fine, rouletted decorations.

Remember to be professional and courteous when interacting with visitors. Should you ever feel uncomfortable, please quickly disengage yourself from the interaction and contact Drs. Lapham and Fitts ASAP.

Social Media Plan & Guidelines ANTH 451: Field School in North American Archaeology

RLA FACEBOOK AND INSTAGRAM POSTS

- Two post per week (minimum).
- What you're doing, why you're doing it, and interesting findings/observations.
- Photos (1–2) plus description (3–4 sentences).
 - If you have more than one photo, use the "layout" app.
 - Square photos work best for Instagram.
 - Captions should be short, but informative.

- Captions may include names and majors/years of students (if not a large group) and if individuals give their permission.

- Initial posts should include information about the site, where we are working, why we are there, what we are looking for, etc.

• Tag general locations, places, and people. For each post, be sure to use the following hashtags:

#rla_unc	#unc
#unccollege	#dukeforestresearch
#uncsummerschool	#archaeology

SOCIAL MEDIA GUIDELINES

- Be professional, courteous, and kind.
- Always ask before posting a picture of someone's face.
- Do not post about or mention human remains.

• Be respectful when talking about the people who once lived at the site where we're working; they are ancestors of people living today.

• <u>ALL</u> POSTS (both text and images) <u>MUST</u> be <u>REVIEWED</u> by Drs. Lapham and Fitts PRIOR to posting on social media.





Instagram: @rla_unc



Website: archaeology.sites.unc.edu ancientnc.web.unc.edu





679870 ····· 679880 ····· 679890 ····· 679900 ····· 679910 ····· 679920 ····· 679930 ····· 679940 ····· 679950 ····· 679970 ····· 679980 ····· 679990 ····· 680000 ····· 680010 ····· 680020 ····· 680030 ····· 679950 ····· 679970 ····· 679980 ····· 679990 ····· 680000 ····· 680020 ····· 680030 ····· 679950 ····· 679970 ····· 679980 ····· 679990 ····· 680000 ····· 680020 ····· 680030 ····· 679950 ····· 679970 ····· 679980 ····· 679990 ····· 680000 ····· 680020 ····· 680030 ····· 679950 ····· 679970 ····· 679980 ····· 679980 ····· 679990 ····· 680000 ····· 680020 ····· 680030 ····· 679950 ····· 679970 ····· 679980 ····· 679990 ····· 680000 ····· 680020 ····· 679970 ····· 679970 ····· 679980 ····· 679970 ····· 680000 ····· 680020 ····· 680030 ····· 679970 ····· 679980 ····· 679980 ····· 680000 ····· 680020 ····· 680030 ····· 679970 ····· 679980 ····· 679980 ····· 680000 ····· 680020 ····· 680030 ····· 679980 ····· 679980 ····· 679980 ····· 680000 ····· 680030 ····· 679980 ····· 679980 ····· 679980 ····· 679980 ····· 680000 ····· 680030 ····· 679980 ····· 679980 ····· 679980 ····· 679980 ····· 680000 ······ 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ······ 680000 ····· 680000 ······ 680000 ····· 680000 ····· 680000 ····· 680000 ····· 680000 ·····

Best Practices for Archaeological Fieldwork

Don't sit in excavation units		Kneel using a kneepad, crouch, or stand in excavation units
Don't sit, stand, or step on the edge of an excavation unit		Keep your feet at least six inches away from unit edges to avoid collapsing walls
Don't leave your shovel on the ground facing upward		Lay your shovel on the ground with the blade facing towards the ground or lean it against a tree to avoid injury
Don't toss o	dirt over your shoulder while shoveling	Place dirt directly into buckets, wheelbarrows, or back dirt piles to avoid injuring other people
Don't step	or stand on tarps on or near excavation units	Wait until tarps have been removed before approaching units to avoid injury or wall collapse
Don't step	into a unit during active excavations	Always ask an excavator before entering their unit
Don't remove artifacts stuck in unit walls or floors		Excavate around artifacts until they can be safely removed without damage; If deeply embedded, leave artifacts in situ to be excavated later
Don't dig deeply or vertically with shovels or trowels		Always remove dirt systematically in shallow, horizontal passes to allow for changes in soil color and texture to be detected
Don't mix dirt from different excavation contexts		Always appropriately label buckets or wheelbarrows with correct provenience information BEFORE excavation begins
Don't mix artifacts from different excavation contexts while screening		Ensure that artifacts are placed in correctly labeled bags (dry screening) or on appropriately labeled drying racks (water screening)
Don't overfill buckets or wheelbarrows with soil		Fill buckets and wheelbarrows with soil to a manageable weight to avoid spills and injury; Know your limits and the limits of those around you
Don't sit on or use stacked buckets		Unstack buckets before use to avoid injury and frustration
Don't set paperwork, clipboards, or binders on the ground		Place all paperwork, clipboards, and binders on an elevated surface (bucket, toolbox, table, etc.) to keep them clean
Don't assemble or disassemble the total station without supervision		Always seek out supervision while handling the total station to avoid damaging a very expensive piece of equipment
Don't set the total station prism on the ground		Prop up the total station prism to keep it clean and functional
Don't dig without supervision or direction		Listen to your supervisors. When in doubt, ask questions!
Don't be rude to visitors		Approach interested visitors with respect and kindness; and politely inform them about our field school and excavation goals
Don't be late when meeting in the morning		Be on time (or early!) so we, as a team, can achieve our goals for the day
Lastly	Be Aware of Your Surroundings Know your Limits Stay Hydrated Respect Nature	Remember to wear appropriate and protective clothing and footwear; Use sunscreen and, if desired, insect repellant; Drink ample water, especially on hot days (8 ounces every 15 to 20 minutes); Check your surroundings for poison ivy prior to setting gear and personal items on the ground

RESEARCH LABORATORIES OF ARCHAEOLOGY 2011 FIELD SCHOOL GLOSSARY

Arbitrary sample unit – subdivision of the *data universe* with no cultural relevance, such as a excavation unit defined by a *site grid*

Arbitrary level – a specified amount of archaeological matrix excavated in a situation where stratigraphy is poor or nonexistent; its thickness is not based on natural or cultural strata

Association – occurrence of an item of archaeological data adjacent to another, in or on the same *matrix*; a spatial relationship that does not necessarily connote cultural association

Bioturbation – a *natural secondary context* produced by animal or plant activity; produces *disturbances*

Block excavation strategy - the practice of opening up a large area of a site at one time

Natural disturbance – past alteration of natural soil strata by tree growth and death or by animal digging; sometimes indistinguishable from cultural features until excavated

Excavation unit – square of a given size used for horizontal control

Feature – past alteration of the natural soil strata to provide a setting for one or more activities, such as the postholes of a structure, a storage pit, or a burial chamber

Flake – a stone artifact detached from a core, either as waste or as a tool

Flotation – a method of recovering small floral and faunal remains from soils using water to separate those remains (which tend to float) from the soil

Context – the position of an archaeological find in time and space, established by measuring and assessing its *associations*, *matrix*, and *provenience*

Core (artifact) – a stone artifact from which *flakes* are removed; it is used as a tool or a blank from which other tools are made

Coring (activity) – a sampling technique using a hollow metal tube driven into the ground to lift a column of earth for stratigraphic study

Cultural level – archaeological matrix that has excavated boundaries defined with reference to human activity; the plow zone, for example

Data universe – a defined area of archaeological investigation, often a region or site, bounded in time and space

Deposition – the moment when artifacts enter the archaeological record by loss, discard, or intentional burial

Diachronic – a perspective that considers change over time

Law of superposition – the principle that the sequence of observable *strata* from bottom to top reflects the order of deposition from earliest to latest

Matrix - the physical medium (often soil) that surrounds and contains artifacts

Midden – an accumulation of debris resulting from human disposal

Natural secondary context – a *secondary context* resulting from natural processes such as erosion or animal and plant activity

Nonarbitrary sample unit – a subdivision of the *data universe* with cultural relevance, such as rooms or houses

Primary context – the condition of a matrix and associated artifacts that have *not* been disturbed since original deposition

Provenance – general place of origin; a narrative of an object's history maintained by museums and collectors

Provenience – the three-dimensional location of archaeological data at the time of discovery

Secondary context – the condition of a matrix and associated artifacts that have been wholly or partially altered after original deposition

Shard – a piece of glass (in North American archaeology)

Sherd – a piece of pottery (in North American archaeology)

Site Grid – a coordinate system established for the purpose of recording the provenience of artifacts, features, and excavated contexts at a given site

Strata – the definable layers of archaeological matrix revealed by excavation

Stratigraphy – the process of working out the relationships between natural and cultural levels

Synchronic – pertaining to phenomena at one point or moment in time

Taphonomy – the study of the transformational processes affecting artifacts, particularly organic materials, after deposition

Temper – materials added to clay prior to pottery manufacture, usually in order to transform its workability and to prevent cracking during drying and firing

Total station – a piece of surveying equipment used to record the horizontal and vertical location of excavated contexts and artifacts

Troweling – a method of excavation in which archaeologists use sharpened mason's trowels to shave thin slices of dirt from the floor or face of an excavation unit