

Short-Term Field Study Program Information

Please provide the following information:

Field Study Program Name: Interdisciplinary Field Program
 Field Study (FSTY) Course ID: FSTY 1025
 Field Study (FSTY) Course CRN: TBD
 Semester Program will be Offered: Summer 2022
 Part of Term (Select Part of Term that most closely aligns with program dates)*: Extended Summer Session

[Click Here for Session Dates \("Classes Begin" and "Classes End"\)](#)

Location of Field Study: Various locations throughout the USA (this is a mobile program)
 Program Director/Contact Name: Julia Cox, Paul Schroeder
 Program Director/Contact Phone Number: 706-542-2652
 Program Director/Contact Email Address: juliaec@uga.edu; schroe@uga.edu
 Program Start Date (First meeting with enrolled students): 6/3/2022
 Program End Date (Last meeting with enrolled students): 8/1/2022
 Travel Start Date: 6/3/2022
 Travel End Date: 8/1/2022
 Anticipated Number of Total Students Participating in Program: 16-20
 Anticipated Number of UGA Students: 16-20
 Anticipated Number of Transient Students: 0-2
 Anticipated Number of Undergraduate Students in the Program: 16-20
 Total Number of Credit Hours Taken by Each Undergraduate Student: 11-15
 Anticipated Number of Graduate Students in the Program: 0
 Total Number of Credit Hours Taken by Each Graduate Student: NA

Please list each course offered through the program on a separate row below:

Course Title	Course Prefix	Course Number	Credit Hours	Schedule Type	Instructor(s)	Department of Instructor(s)	Course Start Date	Course End Date	Total Lecture Hours	Total Field/ Lab Hours	Total Contact Hours**
Introduction to Anthropology (Honors)	ANTH	2120H	3	Lecture	Thompson, Gragson	Crop & Soil, Anthropology	6/3/2022	7/30/2022	72.5	8.25	76.625
Indians of North America	ANTH	4020	3	Lecture	Thompson, Gragson	Crop & Soil, Anthropology	6/3/2022	7/30/2022			
<i>Program requires each student register for 3hrs ANTH with options above.</i>											
Ecological Basis of Environmental Issues (Honors)	ECOL	1000H	3	Lecture	Kaitlin Farrell, GTAs	Ecology	6/3/2022	7/30/2022	89.25	25.75	102.125
Ecological Basis of Environmental Issues Laboratory	ECOL	1000L	1	Supervised Lab	Kaitlin Farrell, GTAs	Ecology	6/3/2022	7/30/2022			
Ecology of North America + Lab	ECOL	4160-4160L	4	Lecture	Kaitlin Farrell, GTAs	Ecology	6/3/2022	7/30/2022			
<i>Program requires each student register for 4hrs ECOL with options above.</i>											
Physical Geology (Honors) + Lab	GEOL	2350H-2350L	4	Lecture	Cox, Dvoracek, Milewski	Geology, Office of Research CAIS	6/3/2022	7/30/2022	134	34	151
Historical Geology (Honors) + Lab	GEOL	2360H-2360L	4	Lecture	Cox, Dvoracek, Milewski	Geology, Office of Research CAIS	6/3/2022	7/30/2022			
Geology of North America + Lab	GEOL	4330-4330L	4	Lecture	Cox, Dvoracek, Milewski	Geology, Office of Research CAIS	6/3/2022	7/30/2022			
<i>Program requires each student register for 4-8hrs GEOL with options above.</i>											

*Please work with department schedulers and OIE to ensure that all academic courses are scheduled in the same Part of Term as the program FSTY course.

Please also complete the Academic Itinerary found on the second worksheet of this document.

**Total Contact Hours = Total Lecture Hours + (Total Field Hours / 2)

Courses require 12.5 contact hours for each credit hour earned

For questions, please contact the Office of Curriculum Systems at csfieldstudy@uga.edu or 706-542-6358.

1000 Return from field, clean up
 1100 Lecture: Key Concepts in Anthropology
 1200 Lunch Break
 1300 Lecture: Rock Cycle and Igneous Processes
 1530 Break
 1545 Lecture: Marine Invertebrates & Geologic Time Scale
 1800 Dinner
 1930 Lecture: Weathering and Sedimentary Processes

lecture

2.5

1.25

1.5

1

1

4

Sapelo
 700 Breakfast. Pack lunch.
 800 Lecture: Methods and Ethics in Anthropology
 900 FIELD EXCURSION: Hog Hammock Tour
 1200 Lunch break
 1300 Lecture: Introduction to Cultural Anthropology
 1400 Break
 1415 Lecture: Stress, Deformation & Metamorphism
 1515 Break
 1530 Lecture: The Rock Cycle and Rock ID
 1800 Dinner
 1930 Videos: The Beaches are Moving, current volcanism

lecture
 guided tour

1

2.5

1.5

1

3

1

5

Sapelo
 700 Breakfast. Pack big lunch (long day).
 800 Lecture: Hydrology and Groundwater Resources
 930 FIELD EXCURSIONS (split into two groups):
 Trawl in Doboy Sound (half group goes to Nannygoat)
 Nannygoat Beach - water table (half of group does trawl)
 1330 Lunch break
 1400 FIELD EXCURSION: Shell Ring, Racoon Bluff, Cabretta Beach
 1430 Shell Ring (quick stop at Chocolate after Shell Ring)
 Racoon Bluff
 Cabretta
 1830 return
 1900 dinner
 2000 Study time & Mandatory Staff Meeting

lecture

1.5

2

1

0.5

2

0.5

1.5

6

Sapelo - Exam 1
 700 Breakfast. Pack lunch.
 800 EXAM
 1100 rest of day off for laundry, cleaning, relaxing on beach
 staff grades exams and field notebooks
 1800 dinner on the beach!

exams

1

1

1

7

Okefenokee, Kolomoki
 630 Breakfast. Bags to trucks at 0615.
 700 Final cleaning
 730 Departure for ferry dock
 800 Ferry to mainland
 Arrive Meridian dock. Pack truck with gear. Visit Meridian Visitor Center (opens 7:30am Tues-Fri, 8am Sat)
 900 depart for Folkston GA (use Apple map app to navigate to 2700 Suwannee Canal Rd, Saint George GA)
 1030 Okefenokee NWR Visitor Center, Swamp Island Drive, hiking trails
 1300 depart for Kolomoki (call Kolomoki to tell them ETA - they are staying open late for us)
 1330 gas stop Flash Foods 1736 S Georgia Pkwy W, Waycross, GA 31503
 1700 Arrive Kolomoki Museum. Tour museum and Temple Mound.
 1830 Arrive in camp, Kolomoki Mounds SP
 1900 Dinner
 2000 Camp meeting: crew assignments, logistics
 ASSIGN PAPERS: Nutrient pollution (assign ECOL 4160 lead 15-min discussion of nutrient phases)

visitor center

0.25

0.25

0.25

1.25

1.25

1.25

1.25

1.5

8 EDT->CDT

Providence Canyon
 600 Breakfast (Bags to the van at 0545)
 700 Leave for Providence Canyon
 Arrive Providence Canyon. Overlook, hike canyon, discuss stratigraphy, diagenesis, groundwater erosion, stream erosion and deposition
 1200 Leave Providence Canyon (navigate to Eufala, Montgomery AL)
 ASSIGN VIDEO: Earth Revealed - Rivers & Landforms (2 videos)
 ASSIGN VIDEO: A Tale of Two Rivers

lecture and field activity (instructor led)

3

1.25

1

1.25

1

	Lecture: U.S. Physiographic provinces; Federal government agencies and public land use; petroleum production	1930	lecture	1.5						
13	Day Off in Santa Fe									
14	Bandelier National Monument and Valles Caldera (All times MDT)									
	615 Breakfast									
	715 Leave camp									
	Arrive Bandelier National Monument (MUST arrive before 9am to drive into park, otherwise must take shuttle).									
	830 tour ruins, museum (2 mile roundtrip hike)		guest lecture, guided tour						3.25	
	1200 Leave Bandelier for Valles Caldera									
	1245 Valles Caldera overlook; caldera volcanics lecture		lecture	1.25						
	1415 Meeting NSF-CZO Field Station managers to discuss current CZO operations.		guest lecture	0.5			0.75			
	1530 Valles Caldera visitor center		visitor center		0.25			0.25		
	if time: roadstops at South Mtn rhyolite dome, pumice, and obsidian outcrops along NM4 west of caldera									
	1600 head to camp									
	1800 Dinner									
	LECTURE (ECOLOGY) 4160 students assigned to give 5-10 minute overview of 1) Archaeology-ecology and									
	1930 ecological succession and legacy of environmental disturbances		lecture				1.5			
	NOTE clothing for tomorrow should be appropriate for Acoma visit. No tank tops or short shorts. Respectful clothing please. Also, pottery and jewelry will be on sale at Acoma. Many vendors only take CASH.									
15	Acoma Pueblo, Chaco Pueblo Bonito (All times MDT)									
	600 Breakfast (bags to truck 545)									
	Leave camp for Acoma Pueblo. Travel South on I-25 to Albuquerque. Then travel West on I-40 for approximately 55 minutes. Exit at Exit 102; continue to the roundabout and cross over I-40 following the signs to Acomita/Rest Area. At the last roundabout exit at the second right and head to the bottom of the small hill with a Stop sign, turn right and follow the signage to Sky City Cultural Center/Haak'u Museum. You will travel through the small village of Acomita for approximately 5 miles then turn left and follow the signs to Sky City									
	700 Cultural Center/Haak'u Museum approximate drive is 15 miles from I-40.									
	ASSIGN VIDEO: The Mystery of Chaco Canyon		video and class discussion in van						1	
	arrive Sky City Cultural Center/Haaku Museum for check-in (NOTE: there is NO note-taking allowed in the museum or during the tour. Also, photography only allowed with camera permit - can be obtained with									
	900 entrance ticket)									
	930 Acoma guided tour begins (board shuttle to begin)		guided tour						2	
	1200 Museum		museum							0.5
	depart for Chaco (I-40W to exit 53, take 371 to Hwy 9 and 57 to Chaco. (Another option - I-40W to Exit 79, take Hwy 605 to 509 to Hwy 9 and 57). See map in excursions folder. Route involves 20 miles of dirt road on									
	1230 57. CALL CHACO FIRST TO CHECK ON ROAD CONDITIONS 505-786-7014.									
	gas stop Grants exit 79									
	ASSIGN VIDEO: What Was Chaco		video and class discussion in van						1	
	1400 Arrive Chaco visitor center		visitor center	0.25				0.25		0.25
	1500 tour Pueblo Bonito, Casa Rinconada		guided tour (instructor-led)						2.5	
	Arrive at camp, Gallo Group Camp (on the right as you enter the park before the visitor's center. Drinking water available at the visitor's center parking lot. Water in the camp ground not potable due to mineral content.)									
	1730 Dinner (also pack lunches tonight to save time tomorrow)									
	1800 Lecture - Ancient Pueblos, Paleoclimatology		lecture	0.5					1	
16	Chaco Pueblo Alto hike (All times MDT)									
	600 Breakfast (bags to truck 545)									
	Leave on Pueblo Alto hike (5.4 mile loop) (trails open 7am) - compare sandstone features to Sapelo beach; also ask students to think about predominant erosional factors here - what causes box canyons?		lecture and field activity (instructor-led)	2	1		1		1	
	1300 Last hikers return to vans									
	depart after final stop at visitors center (follow route to US 550, Nageezi via 7950 and 7900 (13 miles of dirt road on the way out))									
	1330 gas stop Aztec (Roadrunner Fuels 800 S Main Ave, Aztec, NM 87410) - comment on San Juan Basin oil and gas		lecture	0.5						
	arrive Mesa Verde visitor center (outside park entrance); purchase tour tickets for Balcony House (more									
	1630 adventurous) or Cliff Palace (larger)		visitor center							0.5
	arrive Morefield group campground. Check in at store first. Then select group campsite(s) - the first two sites									
	1730 on the right work well (sites #16&17).									
	1800 dinner									
	1930 Lecture - Colorado River hydrology		lecture	1.25						
	ASSIGN PAPERS: Drying of the West, Unplugging the Colorado River									
17	Mesa Verde pit houses and cliff dwellings (All times MDT)									
	630 Breakfast, make lunches									
	730 Leave camp									
	830 Mesa Top Loop - pit houses and Sun Temple		lecture and tour (instructor-led)						2.5	
	1100 Museum tour		tour	0.5			0.5			1
	1400 Balcony House tour (must purchase tickets in advance)		ranger-led tour							
	1500 Cedar Tree Tower - hike Farming Terrace trail (0.5 mile loop)		instructor led field activity	0.25			0.25		0.5	

Park Point overlook - overview of Four Corners geology (go to right at top lookout for overlook of Mesa Verde canyons, Sleeping Ute, Shiprock) lecture
 1630
 1730 Return to camp
 1800 Dinner

1

0.25

Evening hike to Point Lookout to watch sunset (2.2 miles roundtrip from campground amphitheater parking lot); No lecture on top. ASSIGN PAPERS: Fossil and Renewable Energy papers.

18 MDT to MST

Four Corners, Grand Canyon South Rim

630 Breakfast (Bags to truck at 0615)
 730 Leave camp

800 Stop at Mancos Shale just outside of park, fossil hunting & ID. (pull off in acceleration lane heading N on 160) field activity (instructor led)
 900 depart for Goosenecks

1

1100 Goosenecks State Park (overlook incised meander) lecture
 1200 head to Arizona via Monument Valley

0.5

0.5

1430 (MST) Grand Canyon Desert View Watchtower lecture
 (MST) Arrive Ten-X (Kaibab NF) campground, south of Tusayan. Group sites through the gate to right of campground host.

0.5

0.5

1630 Dinner; pack lunches for tomorrow
 1700 Lecture Grand Canyon geology

1

also cover hiking safety, hydration, hyponutremia. For hike: no sandals, must have at least 2L of water (use one bottle for gatorade), must have a hat and coverage for neck. Pack clean clothes & shower stuff for after hike.

19 All times MST

Grand Canyon Mapping. (All times MST)

430 Breakfast (lunches packed last night)
 500 Leave camp

530 Arrive at Bright Angel Trailhead around sunrise
 600 Start mapping field activity (instructor-led)

2.5

2.5

1000 Three Mile House (complete mapping here)
 1100 Start return, those going to Indian Gardens should be there.

1200 Those going to Indian Gardens should be back at three mile house. Trip leader ALWAYS! in front.

1300 Direct hikers back to Bright Angel Lodge; a van-full can head to showers in Mather Campground
 1400 Indian Garden hikers should be above mile and a half house

1500 All hikers should be out and headed for showers.
 1600 Most should be on way to camp, last hikers may be at showers.

1700 Dinner
 1830 Instructions for geologic map completion lecture

1

20

Day off Flagstaff

21 All times MST

Grand Canyon Overlooks, Glen Canyon Dam (All times MST)

ASSIGN PAPER: Desert plant adaptations
 530 Breakfast (bags to truck at 0515)
 630 depart

Grand Canyon overlook stops (Grandview, Lipan); lecture GC environmental issues (air quality, U mines, water quality) lecture

1

830 Little Colorado gorge overlook (9.4 miles west on SR 64 from US Highway 89)
 Lecture - global carbon cycling lecture

1

free time for jewelry/pottery shopping
 1100 Cameron gas stop (CameronTrading Post)
 lecture - Navajo/Hopi lecture

1

1215 leave Cameron for Page via US89
 1345 arrive Glen Canyon Dam visitor center (tour scheduled for 1415 MST, must arrive 30 mins early)

0.25

0.25

Do not bring bags, food, or anything to drink other than water (camera, clear water bottle, wallet, cell phone ok). Water fountains are not working in the Visitor Center this year, so bring water!

guided tour

0.75

0.75

1600 arrive camp Wahweap
 1700 Dinner

1830 swimming, laundry, complete maps

22 all times MDT

Grand Staircase, Bryce, drive to Zion (travel in Utah, return to MDT)

600 (500 MST) Breakfast (bags to truck 545); turn in GC maps
 700 (600 MST) depart camp

arrive Grand Staircase entrance at Cottonwood Canyon Road (17.7 miles from AZ/UT border, about 10.5 miles west of Big Water) lecture

0.5

0.5

0.5

head N toward Bryce via Cottonwood Canyon Rd through Grand Staircase-Escalante National Monument (est 1996 by Clinton & was very contentious; first nat monument run by BLM)

930 hike Cottonwood Narrows slot canyon (3.5 mile loop or leave 1 van at southern trailhead parking area) field activity (instructor-led) 1 1
 The southern trailhead is 24.4 miles up Cottonwood Canyon Rd (CCR) from US-89 (northern trailhead is 1 mile further). Set your odometer!!

1200 Cannonville GSENM visitor center (closed Mon and Tues), brief stop

1330 arrive Bryce - hike Navajo Trail (1.3 mi loop from Sunset Pt) (note paleosols) lecture and field activity (instructor-led) 1 1
 1530 Bryce Canyon visitor center visitor center 0.25 0.25

1600 depart for Zion

1700 Mt Carmel Junction (gas)

1800 arrive campground (Watchman campground in Zion NP)

1830 dinner (make lunches for tomorrow - pack plenty for long hiking day)

1930 LECTURE (ECOLOGY): Fossil and Renewable Energy Resources

Instructions for measuring stream discharge 0.5 1
 divide into stream gauge/hiking teams for tomorrow

23

Zion Canyon. (All times MDT)

Student teams complete assigned GEOL and ECOL focus questions at various locations in the canyon. Completion of Virgin River discharge measurement by each team required. Sandals not recommend for Narrows hike. Hiking shoes work well. Keep cameras etc in waterproof containers

500 Breakfast

530 walk to visitors center for shuttle

600 shuttle service starts up canyon

1600 last hiker boards shuttle back to camp

1700 Arrive in camp.

1800 Dinner

1900 Exam review

field activity

2.5

2.5

0.25

0.25

0.25

24 MDT->PDT

Exam 2, drive to Las Vegas (gain 1 hr in Nevada)

For power plant tour today: students need to wear power plant appropriate clothes and solid shoes --- which means no open-toed shoes, no flip flops; no shorts. Short-sleeved shirts are A-OK

630 Breakfast (bags to truck at 0615)

730 EXAM 2

1045 depart camp (check out time is 11am)

brief stop LaVerkin Overlook to discuss Hurricane Fault (western boundary of CO Plateau)

1115 head toward St. George and Las Vegas

1130 (PDT) enter Nevada, gas stop in Mesquite

1245 (PDT) arrive Harry Allen Generating Station for tour (tour scheduled 1pm PDT with plant manger) guest lecture and guided tour 1.5 1.5

Take exit 64, to US-93/Great Basin Highway. Go under freeway to the west; Take an immediate right on a frontage road that parallels I-15 northeast; Turn left at power plant sign; Travel (carefully/slowly because of tortoise protections) northwest for about 2 miles ... and follow signs to the plant. Security will check you in; all bags must be left on the bus; cell phone photos and cameras are OK.

1600 (PDT) check into Las Vegas Hostel (check in starts 3pm)

park vans and truck in fenced lot adjacent to hostel. Hostel desk clerk has the key.

1630 (PDT) evening off (pool, dinner out, sight seeing at strip)

Nobody walks/explores alone. Split into groups depending on desired restaurant and sight seeing. Downtown Container Park has good meal options.

2200 (PDT) curfew

25 All times PDT

Death Valley and Owens Valley (all times PDT)

600 Breakfast (set up in hostel kitchen), (bags to truck at 0545)

700 Leave camp.

ANTH: Assign Manzanar reading and podcast; Assign TED talk "How language shapes the way we think" (pod will show up as a song in Music)

video and class discussion in van

1

815 Gas stop Pahrump, brief lecture on Basin&Range/Great Basin

0.5

ASSIGN VIDEO: Cadillac Desert I-III

video and class discussion in van

1

1015 Badwater Basin

lecture and field activity

0.5

1130 Visitors center at Furnace Creek

visitor center

0.25

0.25

1230 Leave Visitors center. ASSIGN VIDEO: Cadillac Desert I-III (continued)

video and class discussion in van

1

1

1430 Gas stop Lone Pine, Alabama Hills granite weathering

lecture and field activity (instructor led)

2

For Alabama Hills stop, head W on Whitney Portal Rd, drive 2.5 miles to Movie Flat Rd and turn right. After 1.5 miles go right at the Y in the road. There will be Natural Arch trailhead parking area immediately on your left.

1700 Depart for Big Pine

From highway 395 in Big Pine, CA, turn west on Crocker Street, proceed 8 miles west - campground will be on your left after you have entered the forested area.

1800 Arrive Big Pine Canyon, we have both Clyde Glacier and Palisade group sites

1830 Dinner

1930 LECTURE (ECOLOGY): Life history adaptation

lecture

1.25

26	Ancient Bristlecone Pines, Manzanar									
	600	Breakfast (bags to truck 615) Make lunches								
	700	Leave camp. ASSIGN VIDEO: Living History The Ancient Bristlecone Pine	video and class discussion in van				0.5			
	815	Ancient Bristlecone Pine Forest (visitor center open daily 10am-4pm) ECOLOGICAL: Discuss organismal life history traits - longevity Geology: Topographic maps	lecture lecture				1			
		hike Discovery Trail (1 mile loop) (or Methuselah Trail (4 mile loop) if time) (could also add Cabin loop trail), topo map exercise	field activity		1			1		
	1200	Bristlecone visitor center	tour				0.25			
	1230	depart for Manzanar Manzanar National Historic Site (open daily 9-4:30), 5001 Highway 395								
	1300	Independence, CA 93526 video, museum, driving tour of grounds, discussion	instructor-led tour, discussion				1.5		2.5	
	1600	depart for camp Assign video: A Place Without People	video and class discussion in van						1	
	1730	Arrive Mammoth Lakes Campground. From US 395, take California route 203 toward Mammoth Lakes.								
	1800	dinner								
	1930	lecture on regional geology, geothermal energy, ASSIGN PAPERS: California water crisis students could pack bathing suit, towel for dip in Mono Lake	lecture				1.25			
	27	Mono Lake, Mammoth Geothermal Plant								
		630	Breakfast							
730		Leave camp								
815		arrive Mono Lake South Tufa area, meet ranger for tour (tour time set for 830) Navy Beach for a swim, if time	guest lecture and guided tour				0.5		0.5	
1100		Mono Lake visitor center - ECOLOGY: Endangered Species Act and Watershed Conservation	visitor center		0.25			0.25		
1200		depart for Mammoth								
1245		Stop at Obsidian Dome, lecture Mammoth Pacific Geothermal tour (Cheryl Eanes <ceanes@ormat.com>; 760-934-4893x44770) (Jct Old Hwy 395 & Hwy 203 - can see plant from 203 - turn L on Antelope Springs, then R on Casa Diablo. Go to metal 1415 bldg on R)	lecture, field activity guest lecture and guided tour				1		1	
1630		return to camp								
1700		early dinner								
1830		Lookout Mountain for view of Long Valley, lecture, obsidian collecting. Directions here: https://volcanoes.usgs.gov/volcanoes/long_valley/long_valley_sub_page_18.html	lecture				1			
28		Day off Mammoth Lakes								
29	Olmsted Point, Tuolumne Grove hike									
	630	Breakfast (bags to truck at 0615)								
	730	Leave camp for Yosemite ASSIGN VIDEO: Earth Revealed Glaciers	video and class discussion in vans				0.75			
	830	Gas stop Lee Vining (Tioga Gas Mart on Tioga Rd); proceed on Tioga Rd into Yosemite								
	930	Olmsted Point - glacier lecture and geologic history of Sierra Nevada (Mz igneous arc, recent uplift, glaciation) hike up slope on N side of road - observe/sketch textural features of granite and evidence of glaciation	lecture and field activity (instructor-led)				2	0.5		
	1230	Tuolumne Grove hike (1 mi hike to grove, 2+ miles roundtrip, 500' elevation loss/gain) - contrast climate and slope conditions here to east side of Sierras; discuss ecology of giant sequoias	lecture and field activity (instructor-led)				2	2		
	1630	Leave for camp.								
	1700	Arrive in camp, Lone Pines Stanislaus NF.								
	1730	Dinner (pack lunches for early hike tomorrow)								
	1900	LECTURE (ECOLOGICAL) - California's Water Crisis: papers, Water Footprint, Yosemite's Twin, water-energy- food nexus						1		
30	Yosemite Valley									
	415	Breakfast								
	500	Leave camp Glacier Point Overlook - sketch glacial erosional features; discuss granite jointing and exfoliation (drivers take vans to Yosemite Village or Happy Isles)	lecture and field activity (instructor-led)				1			
	830	hike Panorama Trail to Illilouette, Nevada, Vernal Falls (8.3 mi one-way) - observe current predominant (post- glacial) erosional processes (have hikers wait/meet at trail junctions to keep group together and discuss)	field activity (instructor-led)		1.5		1	1.5		
	1400	arrive Happy Isles trailhead in valley; take shuttle to Yosemite Village								
	1430	Yosemite Village - visitor center and museum; focus on exhibits related to human history in Yosemite depart for camp	museum and visitor center		0.25			0.25	1	
	1700									
	1830	Dinner								
1930	lecture: Environmental Anthropology	lecture						1.5		
31	Western Metamorphic Belt, San Joaquin Valley									

37	Crater Lake NP							
	630 Breakfast (bags to van at 0615); Make lunches							
	730 Leave Camp							
	830 gas stop - Pilot on 97N just after Klamath Falls							
	1015 Arrive Crater Lake Rim Village - visitor center	visitor center	0.25			0.25		
	Crater Lake lectures - Native American belief&ceremony, Mazama geology	lecture	0.5					1
	1300 Hike Cleetwood Trail to lake shore (trailhead 4.5 miles east of North Junction)							
	observe/sketch/describe volcanics along trail	field activity		1				
	Lake ecology lecture	lecture				1		
	1500 Be at vans to leave for camp							
1730 Arrive in camp (Tumalo State Park)								
1800 Dinner								
1900 Exam review		0.25			0.25		0.25	
38	Exam 3, Warm Springs Museum							
	630 Breakfast (bags to van at 0615); Make lunches							
	730 Exam		1			1		1
	1100 Depart - Head N on Hwy 97 past Redmond and Madras to Warm Springs.							
	Warm Springs Museum (Anthropology) OPEN Tuesday - Saturday 9 am - 5 pm CLOSED Sunday and Monday							
	1200 Pay entrance fees etc on arrival. This is a tribal owned and managed museum. 541-553-3331	guided tour						2
	1415 Depart - Head N on Hwy 97 past Redmond and Madras to Warm Springs.							
	1645 arrive Battleground Lake SP							
	1700 Early Dinner, pack breakfast and lunch for next day							
	1830 all vans depart for Climber's Bivouac (leave truck in Battle Ground)							
1945 arrive bivouac								
39	Mount St. Helens hike							
	500 Wake, dress, eat breakfast							
	530 Begin on Ptarmigan Trail to Monitor Ridge	field activity		4				
	1500 Complete hike							
	1600 recovery time, return to camp at Battle Ground Lake							
1800 dinner								
1930 no lecture tonight								
40	Day Off Portland							
41	Johnston Ridge, Toutle River							
	630 breakfast, make lunch							
	800 depart for Spirit Lake Hwy (Hwy 504, exit 49 from I-5)							
	900 MSH Visitor Center at Silver Lake (WA State Parks facility) \$5/person, open daily 9-5	lecture and visitor center (instructor-led)	2					
	1130 Johnston Ridge Visitor Center (USDA facility) \$8/person	visitor center		2				
	1400 Hummocks Trail (2.3 mi loop)	lecture and field activity (instructor-led)				2.5		
	1730 Return to camp							
	1800 Dinner							
	1930 Lecture - ecological succession	lecture				1.25		
	42	drive to Olympic Peninsula						
630 breakfast, make lunch (bags to truck 615)								
assign geology readings on volcano and EQ hazards of PNW								
730 soil lecture and exercise in camp		lecture and instructor-led field activity				2.5		
1000 depart								
1200 Mima Mounds		instructor-led field activity	0.75			0.75		
1400 Squaxin Island Museum		guest lecture and guided tour						2
1600 depart								
Anth: Assign Makah video; Oldham Makah Whaling		video and class discussion in van						0.5
1800 arrive camp Kalaloch (Olympic NP)								
1830 dinner								
1930 lecture - tribal sovereignty and cultural preservation	lecture						1.25	
43	Olympic National Park, Makah Museum							
	630 breakfast, make lunch							

545 hikers leave camp
 615 arrive Jenny Lake, lecture and notebook assignment
 Jenny Lake shuttle (runs 7am – 7pm, \$15 roundtrip) - take shuttle to Cascade Canyon and hike to Inspiration Point and up Cascade Canyon (optional hike to Lake Solitude) NOTE: If arriving in time for 7AM shuttle and paying CASH the rate is \$5/person. Jenny Lake Boating 307-734-9227
 700 Cascade Canyon hike from shuttle dock: 4.8mi one-way to Cascade Canyon fork; 7.5mi one-way to Lake Solitude. Round-trip to Lake Solitude from shuttle is 15 miles
 1500 last hikers should be in line to board return shuttle boat
 1600 rest of day off in Jackson (Drop off and park in lot at N Cache and Gill)
 1800 purchase dinner in Jackson (Pinky G's Pizza?)
 2000 return to camp

lecture

0.25

0.25

field activity

2

2

54

Tetons to Dinosaur

600 Breakfast (bags to van at 0545); Make lunches
 700 leave camp
 730 Gas stop Hoback Junction

Assign video: Mass Extinction

Green River overlook stop at Warrenton Bridge campground and picnic area (lecture on wildlife migration and conservation efforts)

video and class discussion in vans

1

Assign video: Planet Earth - Saving Species

900 Gas stop Sinclair WY/UT state line

lecture

0.25

video and class discussion in vans

1

2

0.25

1330 Gas stop Sinclair WY/UT state line
 1400 drive Sheep Creek Canyon loop (south of Manila, UT), stop at Uinta fault

lecture

1

1730 arrive camp

1800 dinner

1930 prepare for mapping exercise (review stratigraphy etc)

1.5

55

geologic mapping project

600 Breakfast, make lunches
 700 leave camp for map area

730 begin mapping project (discuss cryptobiotic crusts - don't step on them!)

lecture and field activity (instructor-led)

6

1330 complete mapping

1400 Visitor center and dino quarry exhibit

visitor center and exhibit

1.5

1600 return to camp

1800 dinner

1930 instruction for completing maps (due in AM)

0.75

56

Piceance Basin

615 Breakfast (600 bags to truck); make lunches
 715 Geology & Ecology lecture: the sixth extinction
 815 Anthropology lecture: social inequality

lecture

0.5

lecture

0.5

1

930 brief stop petroglyphs

lecture and field activity (instructor-led)

0.75

1000 depart Dino NM

stop in Piceance Basin to sample/discuss oil shale (Head S on Co Rd 5 at White River City junction) (discuss conventional vs unconventional oil/gas)

lecture and field activity (instructor-led)

1.5

1300 gas stop Rifle

1730 Arrive in Cherry Creek SP camground (Aurora, CO) - use East entrance on Parker Rd.

1800 Dinner

1900 Exam review

0.25

0.25

0.25

57

Exam 4, day off

700 Breakfast (645 bags to truck)

800 Exam

1

1

1

1200 rest of day off in Boulder (or Denver?)

58

Denver Museum

630 take Jenn and John to airport (about 1 hr roundtrip)

730 Breakfast; make lunches

830 leave camp for Denver

900 arrive DMNS, paleo lab tour, public exhibits (including Prehistoric Journey)

guided tour

2

1

1

1

1430 depart for camp

1500 van and gear cleanup

1800 dinner

59 MDT->CDT

drive to Columbia, MO (720 mi, 11 hr est., lose 1 hr)

530 Breakfast (bags to van at 515); make lunches

630 leave camp

Good gas stop late afternoon exit 28 Kansas City MO at QT lots of bathrooms

1830 arrive camp (Cottonwoods RV Park)

From I-70, Take exit 128A in Columbia, MO. Turn left onto US Highway 63 North. Go North 4 Miles to the Oakland Gravel Road Exit. Turn Right at Stop Sign at top of ramp. Go 100 feet, then turn Left onto Oakland Gravel Road. Cottonwoods will be on your right hand side less than 1/2 a mile down Oakland Gravel Road.

