

**EQUIPMENT, SUPPLIES, and APPAREL** you will need for this course

We will discuss these items in the first class meeting. You can ask for clarification then, but feel free to start accumulating them now.

**Mapping Equipment**

Mapping clipboard with cover, preferably either:

- aluminum, with an enclosed portion to hold extra papers, and clips to hold maps, or
- homemade version from two 10 x 12", 0.25"-thick masonite or plexiglas boards, taped at one edge with duct tape, with clips to hold maps.

Field pouch and belt, with non-ferrous (e.g., brass) buckle.

Geologist's rock hammer (hardened steel—no substitutions!) with holster or belt sheath.

Hand lens (10x; Hastings triplets are best) with lanyard.

Pocket transit (Brunton or Silva compass). **You can borrow one from SESE.**

Plastic drop bottle with dilute HCl, and holster.

Field notebook or field sheets (green engineering graph paper is best).

Plastic metric rulers with embedded protractor.

Mechanical pencils with erasers: two 0.5 mm and one 0.3 mm, preferably Staedtler.

Retractable eraser or small gum eraser.

Black ink pens, Sakura Pigma Micron, 005 and 05 (two of each).

Colored ink pens (optional) for sketches and figures.

Sharpie markers: one large black and several colors, for marking samples.

Colored pencils, Prismacolor Verithin. You will need 16 specific colors, all of which are also used in

**SESE will provide these pencils in 2016:**

Field Geology II. Purchase either a 24- or 36-pencil pack, or the individual colors:	Warm Grey 20% 734.5	Olive Green 739.5	Crimson Red 745
	Lemon Yellow 735.5	Peacock Blue 740.5	Dark Brown 746
	Spanish Orange 736	Violet 742	Tuscan Red 746.5
	Orange 737	Deco Pink 743	Dahlia Purple 752
	Apple Green 738.5	Process Red 743.5	Goldenrod 755
	Peacock Green 739	Poppy Red 744	Non-Photo Blue 761.5

Small pencil sharpener to keep colored pencils sharp.

Camera and spare batteries (optional).

Geological "cheat sheets" excerpted from your textbook (optional). (You may carry any books you want with you in the field, but be mindful of their weight and bulk!)

Geometry set (mostly for office use):

- dividers (used to create precise cross-sections)
- compass
- triangles, and
- scaled ruler or straightedge.

**Hiking Apparel**

Field shirt (one for every day of the trip). Light-colored, long-sleeved, soft cotton shirts are recommended. You can find inexpensive ones in any thrift store.

Sweatshirt, hoodie, or light sweater (for mornings and evenings). Fleece is good if wet weather is a possibility.

Field pants or shorts (one pair for every day of the trip). Many dryland plants will claw and tear at exposed skin, so wear shorts at your own risk!

Sturdy but lightweight hiking boots. High-cut boots offer better ankle support. Break new boots in well before the first field trip.

Lightweight, breathable hiking socks. Consider wearing a pair of thin athletic socks under hiking socks if you are blister-prone.

Gaiters (optional). They keep loose materials out of your boots and help protect lower legs if you wear shorts—but they do not protect against snakebite!

Wide-brimmed field hat. Straw or cloth hats are good. Leather and felt are not, (they get hot

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and retain sweat). Billed baseball caps provide incomplete cover.  
Bandana (optional).  
Sunglasses with UV protection.  
Sunscreen with high SPF.  
Rain jacket or windbreaker (optional).  
Folded "emergency" poncho (a good thing to always carry in your day pack).

### ***Hiking Equipment***

Small first-aid kit, including tweezers or small needlenose pliers, and small comb.  
Pocket knife or Leatherman tool.  
Day pack.  
3-4 quarts of water (minimum per day) in canteens, Nalgene bottles, or Camelback. We will carry water jugs to refill your supply as needed on overnight trips.  
Field lunch in insulated, crush-proof container.  
Healthy, energy-rich snacks are always good to bring along.

### ***Camping Equipment and Additional Apparel***

Sleeping bag, sleeping pad (foam, air mattress, Therm-A-Rest, Paco Pad) or cot.  
Extra blanket (if cold nights are anticipated).  
Tent (small if for individual use; group tenting encouraged) with rain fly, and tarp.  
Camping chairs (if we have room to carry them).  
Flashlight or LED headlamp.  
Comfortable clothes for relaxing (e.g., sweats, t-shirts, flip-flops, sneakers).  
Ski hat, gloves, sweater, down vest (if cold nights are anticipated).  
Recreational reading material (optional).  
Personal music player (optional)-- for use with headphones only.  
Personal medications and hygienic items, including:

- Blister tape (for feet)
- Wet wipes (in a ziploc bag to keep them moist)
- Liquid hand sanitizer or biodegradable camp soap
- Toilet paper
- Toothbrush, toothpaste, floss, mouthwash, deodorant, other toiletries

Insulated or plastic mug with lid for hot drinks.

Food:

- Quick breakfasts (nothing elaborate or time-consuming; hot water will be available)
- Wrapped or packaged lunches (sandwiches, burritos, etc.)
- Group dinners (SESE will provide stoves and cookware)
- Evening snacks, if you desire them

***Flexible attitude and a good sense of humor***