

List of required and recommended gear for UALR Field Methods II

Geology equipment to be carried in the field daily:

Good quality, comfortable daypack
Rock hammer (these will be provided unless you bring your own)
Brunton compass (these will be provided unless you bring your own)
Hand lens (10x, Bausch & Lomb Hastings Triplet is recommended)
Hardback field notebook (these will be available for purchase - \$10)
Map board (plexiglas map boards will be made available for purchase - \$10)
Mechanical pencils – at least 2, 0.5 mm, 2H or harder lead
Colored pencils (8 colors minimum)
Waterproof pens
Waterproof markers
Erasers – tube eraser or extra erasers for mechanical pencils
Protractor and short ruler (look for combined protractor-rulers)
Pocket knife or multi-tool
Acid bottle w/ 10% HCl (these will be provided)
Field belt or vest
Field pouch or vest

Recommended personal equipment to be carried in the field daily:

Water bottles or hydration system (carry at least 2–3 quarts)
Sturdy, broken-in field boots & socks (wicking socks and liners are recommended)
Rain gear (jacket and pants recommended) and extra light-weight layers
Gloves and winter hat
Lightweight hat/bandana
Lightweight, breathable field clothing (quick-drying material recommended)
Sun-screen, SPF lip balm, sunglasses
Extra pencils and lead
Insect repellent
Head lamp or flashlight

Recommended equipment for evening work in camp:

Waterproof box to hold drafting supplies and extra field supplies
Longer (12”) ruler or straight-edge
White-out
Scotch tape
Scissors
Tracing paper and stereonet from structural geology
Graph paper (10 squares to the inch, commonly called Cross Section paper)
Extra colored pencils
Pencil sharpener
Black drafting pens (at least **three** line widths, for example, the Pigma MICRON in sizes 005, 02, and 05)
Red drafting pens (as above) for structural features (fold axial traces, etc.)
Calculator

Optional field gear:

Camera
Binoculars
GPS receiver (Garmin recommended)
Cell phone and car charger (no electrical outlets in camp)
Plastic container for lunch/snacks
Small first aid kit (band-aids, tape, pain relievers, etc.)

Personal camping equipment:

Tent – if you have a tent, bring it; you may also arrange to share a tent with someone; the department has some tents that will be made available

Sleeping bag and pad (rated to at least 40 degrees)

Warm weather and cool weather clothing – be prepared for daytime highs in the 80s and nighttime lows in the 30s

Wristwatch w/ alarm or alarm clock

Flashlight/headlamp

Toiletry items

Lightweight shoes and/or sandals/flip-flops (general camp use)

Camp chair (small, collapsible type)

Plate, bowl, fork, spoon (we will have some in the cooking kit, but it might be more convenient to have your own)

Insulated mug

General notes and recommendations

We will be camping during most nights of this course. Campgrounds will all have water available and basic toilet facilities but may otherwise be primitive (i.e., no running water or electricity). On travel days, you will be responsible for lunch and possibly dinner. When in camp, we will provide food for breakfast, lunch, and dinner. Dinners will be prepared as a group using department cooking equipment. If you have any special dietary needs or restrictions, please let the instructors know before we leave.

If you require special medication, bring at least a 3-week supply. If you have a medical condition that might require attention in the field or in camp, please let the instructors know before we leave. We will usually be within a one-hour drive of a town with basic services and amenities.

During most field days, you will be working away from the vehicles for up to 8 hours. Typical field days will begin at 8 am and end at 5 pm. Additional water may or may not be available in the field areas. Be prepared to carry all of the necessary equipment and supplies (including water and lunch) for the entire day over potentially rough terrain. The longest field mapping traverses may involve on- or off-trail hikes of 5–6 miles.

It will be possible to do laundry at least twice during the three week camp. There will typically be water sources (e.g., lakes) near the campsites where you can rinse out dirty clothes (do not use soap or detergents in natural water bodies!). Pay showers will be available on occasion.

We will be working and living at high elevations (>10,000'). The air is thin, the sun is more intense, temperature swings can be quick and dramatic, and inclement weather is common. Be prepared for anything.

Cell phone coverage has historically been poor in the mountainous regions of Colorado, but it has improved significantly in recent years. It is likely that you will be able to get a signal in the campgrounds (not as likely in the field unless you climb to the highest point). If not, it is possible to get a signal within a short drive (5–10 miles) from camp.

Many students consider field camp to be the most rewarding and exciting experience of their undergraduate careers. We will do everything we can to make your experience both educational and extremely enjoyable.