

## **GEAR, EQUIPMENT, & SUPPLIES**

The following list details the gear and supplies that you will need for the course. We work in the field during rain, snow, or sun, making it imperative that you pack such that you can dress in layers and carry rain gear in your day pack. Daytime temperatures in the region are typically warm to hot, whereas evening temperatures are cool. The summer is typically fairly dry, but precipitation (rain or snow) can occur, especially during the first few weeks of class.

The condominiums that we will be staying at in Park City (when we are not camping) are fully furnished with all of the basics. They have linens, towels/washcloths, pots, pans, dishes, silverware, cups, microwaves, refrigerators, a washer and dryer, a television, etc. They do not have dish soap, sponges, toilet paper, paper towels, etc. We will be shopping our first day in Park City, at which time the condo groups can purchase these types of things. There are washers and dryers in each of the housing units and thus, you don't need more than a week's worth of clothing. However, you will need extra layers, coats, etc.

Transportation space will be limited, so we will not have the space for bikes, radios, computers, and other luxuries of life. Please try to pack your personal gear in one duffel bag, but not in an external frame backpack because they do not pack in the vans efficiently. There are computer facilities for email available at the Park City public library.

### **Camping Gear**

We camp en route to and from Park City and on several trips during the course. The department supplies all of the cooking gear (stoves, cooking pots, lanterns), but you will be expected to have the following personal camping gear:

- 1) Tent – unless you can share with another student.
- 2) Sleeping Bag
- 3) Sleeping Pad
- 4) Silverware and plates/bowls – we will not be buying paper plates or plastic cups while camping.

### **Field Gear**

The department supplies Brunton compasses and Jacob's staffs. Note that you need good equipment that will last for the six week duration of the course. All of the project areas have relief, commonly on the order of 1000 ft. None of the field areas are flat, which means that in each field area you need to hike up and down in elevation most of the day. When working projects (which is what we do most of the time), we park the vans and then go on foot for the rest of the day (off trail). Some projects involve hiking (across a fair amount of relief) ~ up to a couple miles (approximately an hour) to get into the field area. Upon arrival, we start working (hiking again), but at the end of the day we have to hike back to the vans. The hiking could best be summed up as being rigorous. Thus, it is essential that you have good hiking gear (e.g., boots). In addition, because we are commonly away from the University vehicles for the day, you must be able to carry project-related gear, your lunch, and enough water for the day in a back pack.

- 1) **Backpack:** *required* to carry gear, water, lunch, and rocks.
- 2) **Water Bottles:** *required* to carry 2-3 liters of water per day. A Camelbak or some other hydration system is ideal for water consumption while working and hiking.

- 3) Boots: *required* to give good ankle support. You will not be allowed to work in the field with tennis shoes or sandals. Cheap boots rarely last the full six weeks. Good soles (e.g., vibram) last longer. Waterproof boots are nice.
- 4) Field Clothing: A week's supply is *required*. Some like to wear short sleeved shirts, but light weight, long sleeve shirts provide better sun protection. Some students like to wear shorts (unless it is cold), whereas other prefer pants to ward off scrapes. A fresh pair of socks is required for each day of the week.
- 5) Jacket and Sweater: *required* to keep you warm when it is cool and windy.
- 6) Rain Coat and Pants: *required* to keep you dry when it is raining.
- 7) Sunglasses: *required* to protect your eyes.
- 8) Hat: *required* to keep the sun off your head and to keep you cooler. Straw hats are nice because they provide ventilation.
- 9) Sunscreen: *required* to prevent skin cancer and sunburns.
- 10) Geology Hammer: *required* to hammer on rocks.
- 11) Hand Lens: *required* to describe rocks.
- 12) Acid Bottle: *required* to carry HCL. Bring a ziploc plastic bag to store the bottle within in order to prevent the appearance of mysterious holes in your pack or bag. We will provide acid.
- 13) Field Books: *required* to take notes in the field. Two 5" x 7" weather resistant hard-cover field books are recommended; at least one is *required*.
- 14) Clipboard: *required* to work on projects in the field. I strongly suggest getting one that is not plastic (plastic breaks easily); wood or some composite is better. If possible, get a piece of plexiglas or clear plastic (with rigidity) cut so that it will fit over the top of your clipboard. Keep the width of the plexiglas equal to the width of the clipboard. I usually tape the bottom of the plastic to the bottom of the clipboard with duct tape. This acts as a hinge so that you can cover your map, etc while working in the field. The top of the plastic is held down to the clipboard with the metal clip at the top of the board that also holds your papers fixed. The plexiglas will keep your field maps and other papers clean and dry while you are working in the field, yet it is clear so you can see through it. You'll definitely want one of these.
- 15) Scale, Protractor: *required* for plotting strike and dip measurements.
- 16) Swing Magnet: *required* for rock descriptions.
- 17) Watch: *required* to know the time of day and night.
- 18) Pocket Knife: *required* for scratching rocks and vice-versa.
- 19) Chapstick: recommended to treat dried out and cracked lips.
- 20) Insect Repellent: recommended keep biting insects at bay.

### **Drafting Equipment and Office Supplies**

You will need the following drafting supplies to work on projects while at the condominiums or at the campsite.

- 1) Drawing Board: *required* to work on projects at the condominiums in Park City and at the campsites. You do not need an expensive board; an inexpensive 18" x 24" piece of masonite is perfectly fine.
- 2) Drawing Triangle: recommended for drafting projects.
- 3) Desk Lamp: a small inexpensive desk lamp is recommended to make up for poor lighting in the condominiums.

- 4) Drafting/Art Pens: pens with different line thicknesses are *required* for maps and cross-sections. Sharpie pens are not acceptable.
- 5) Mechanical pencils, colored pencils, erasers, and sharpeners: *required* for working on projects.
- 6) Calculator
- 7) Drafting Tape or Drafting Dots: *required* to tape projects sheets to your clipboard and drafting board. The tape uses an adhesive that does not rip the project paper when you remove it.
- 8) Books: Geology in the Field by Robert R Compton is *required*. Students should also bring texts on sedimentology, structural geology, petrology, mineralogy, and paleontology. A dictionary is also nice. It is best for students to each bring a different book and share these to save travel space. There will be a field camp library with standard geology texts.
- 9) White-out
- 10) Lined Loose Leaf Paper: *required* for reports.

### **Miscellaneous Items**

- 1) Stamps: recommended if you want to mail postcards or letters.
- 2) Binoculars: small binoculars are recommended if you already own a set, but they are certainly not required.
- 3) Alarm clock: required to wake up in time to depart at 7:30 AM on most mornings.
- 4) Camera: recommended if you already own one, but certainly not required.
- 5) Swim Suits: recommended if you choose to swim at the local pool or when opportunities arise on field excursions.