

**WICHITA STATE GEOLOGY FIELD CAMP (GEOL 640)
REQUIRED EQUIPMENT AND SUPPLIES**

1. Required field equipment and supplies

Field Gear & Clothing Item Name	Rational	Suggested Brands	Hints DO/DONT'S
Leather Hiking Boots	Get full leather boots. Your foot can get punctured with some of the 'pear cactus' that are abundant in the field. There are also rattle snakes in the field. Leather boots can protect your feet and ankles from a snake bite. Make sure to get high-quality boots as you will be in rugged terrain every day.	Leather hiking boots examples include Vasque, Danner, some boots from Cabela's, etc	DO NOT BRING: -fabric upper boots -cowboy boots It is a <u>MUST</u> that you have broken in your boots before field camp. Otherwise, you will get painful blisters during camp.
Backpack with waist belt and chest harness	You will carry your water, food, rain gear, supplies, first aid kit, toilet paper, and anything else you want to bring with you everyday. It is essential to get fitted for a high-quality pack that can endure being tossed around all day.	Osprey, NorthFace, REI, etc	Soft packs only with - integrated waist belt - chest harness NO METAL FRAME PACKS
Belt	For attaching your compass, pouch, knife, etc. around your waist.	Many brands out there.	Separate from your clothing belt that holds up your pants. Makes it easy on and off, carry and keeps the equipment together.
Canteen (2x) or water bladder	You will want two water bottles/canteens or one water bladder. You can fill them w/ ice and water in the morning so that they will remain cool all day. You must stay hydrated all day.	Nalgene bottles, Camelbacks, etc.	
Field notebook pouch	To hold your field notebook, pencils, pens, HCl, eraser, ruler, protractor, etc		
Camera	To take pictures of ... well ... everything	Many types	You'll want pictures of this trip, so don't miss out.

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Field Notebook	You need a field notebook for your field week and notes during the field/ road trip.	Rite-in-the-Rain or similar	Helpful if it is a waterproof notebook. The geological version has helpful tables in the back.
First-Aid Kit	You will likely fall, slide, bruise, cut, etc. while in the field. You could be bit by a snake. Make sure to add all your medicine (allergies, asthma, etc.) to your kit in the event you become sick in the field. It could take you hours to get back to the hospital in Cody.		Add anything you want to a pre-packaged kit. You can even make your own!
Fleece	Fleece will not lose its warming properties when wet (like wool and other materials). Coupled w/ a rain coat, the fleece is a great winter coat alternative.	NorthFace, REI, Mountain Hardware, Patagonia, etc.	
Gloves and winter hat	Keep water and wind off of your hands and head. Remember, you will be taking notes outside, so get gloves that you can write with and that are water resistant.	Mountain Hardware, REI	None
Hand Lens (10x) required and lanyard	I hope this is obvious!		You will affix the lens to a cord (lanyard) to wear around your neck so that it is quickly and easily accessible.
Field pants and shorts	The weather in late May and early June is variable, so you will want both pants and shorts for the field.	Many brands out there.	Jeans or khakis.
Socks	You will put on <u>two</u> pair of high-ankle socks each day in the field. You will get blisters if you wear only one pair.	Many brands out there.	I find that simply two pair of athletic socks do the trick. Others prefer wool socks and a sock liner.
Hydrochloric Acid (will be	To tell carbonates from other rocks in the field		

Field Gear & Clothing Item Name	Rational	Suggested Brands	Hints DO/DONT'S
provided)			
Rain Jacket	Keeps rain and wind off your body. You can put this over your fleece to protect you from intense wind and cold.	Many brands	You won't have space to bring a bulky winter coat, so layer!
Rain Pants	Keeps rain and wind off your body. You will be walking all day. If your pants get wet, you could get seriously chaffed. These will also keep you warm in high, cold winds.	Pricy options are Mountain Hardware, Marmot; other brands too	The cheap solution is a trash bag around your waist. Embrace your new style! Only the other campers and the jackalopes will notice.
Rock Hammer	Geez! Do I need to explain!?!?	Estwing etc	There are two tip styles for hammers: chisel and point. Either is fine and will work for camp.
Rock Hammer holder for belt (above)	To carry hammer and leave your hands free to hold onto the cliff and not fall off.	Many brands out there.	
Rubber Bands	Get big, thick, wide rubber bands. You will need these to secure your map and notes to your plexiglass mapboard.	Office Depot, etc	Make sure to secure your map! You don't want to have to start your map all over again in the middle of the project.
Sandals	For the showers at NW College.	Cheap!	
Hat	Protect your scalp and hair from the sun. Either a tie-down hat or a baseball cap will work. This also keeps the bright sun off of your face. The wider the brim, the better off you will be in the bright, hot sun towards the end of field camp.	Many	Bring a hat! Light color that won't absorb the sun's rays.
Bandana	To cover face in wind and back of neck on sunny days		Very handy There is a reason the cowboys used them!
Sunglasses	To protect your eyes from intense sun and wind. I wore mine everyday.	Many	Wear a hat (see above)
Sunscreen –	Given the elevation and thin		High SPF! You are not

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waterproof	air, it is very easy to get burned.		here to get a beautiful tan...you won't! You DON'T want to burn.
Watch and Alarm clock	You'll need this to tell the time to ensure you get up in the mornings and make all your destinations on time.	Many	Repeat – an alarm clock!!
Lip Balm/Chapstick	The Wyoming sun and wind will do a number on your lips. Keep them lathered up or you will be suffering chapped lips	Many -some brands offer sun protection	
Bear Spray	Bears and wolves. Two mapping areas will be potentially occupied by bears and wolves.	UDAP #12 HP Bear Spray at Cabela's and sport's stores.	Don't expect to use it, but better have it for the unexpected! Bear spray is your best and last defense against a charging bear or wolf.
Insect repellent	BUGS!		

2. Required Mapping Supplies

The following are required mapping supplies that you will use both in the field and in the dorm.

Mapping Item Name	Why you need it!	Suggested Retailer/Brands	Helpful Hint
Colored pencil set (get largest available)	Your map is graded on both accuracy and aesthetics. You need as many reds, blues, greens, and yellows as you can get.	Hobby Lobby, Office Depot, OfficeMax, art supply store	Get Prismacolor pencils Use the rubber bands to keep your pencils together by color type.
Mechanical Pencils	You need these to draw on your map. Get something that is very easy to erase. You don't want to damage your map. Get a few different hardnesses of lead.	Hobby Lobby, Office Depot, OfficeMax, art supply store	Mechanical pencils don't require a sharpener
Small plastic Pencil sharpener	To sharpen your colored pencils as needed.	Hobby Lobby, Office Depot, OfficeMax, art supply store	
Clear plastic Protractor	To ensure the strikes you measure in the field will	Hobby Lobby, Office Depot, OfficeMax, art	Be sure it is clear (to see what is

Mapping Item Name	Why you need it!	Suggested Retailer/Brands	Helpful Hint
	point the right way on your map as you draft them, and to accurately show dip angles.	supply store	underneath)
Rapidograph-Style Pens (black equivalent of 1, 0, and 00) that contain high-quality India ink	You will use the black pens (very fine) to draw your map lines, unit names, and strike/dip symbols. The lone red pen is used for faults. The lone blue pen is for fold symbols (I also used my blue pen for the report.)	Hobby Lobby, Office Depot, OfficeMax, art supply store	You don't have to buy Rapidograph pens. Just an equivalent to save money. Copic pens sizes 0.3, 0.35 and 0.5 are equivalents to the rapidograph pens.
Rulers (flat, either with both MM and Inches) or one of each	You will need a straight edge for drawing purposes. You will need a ruler to help draft your profile plane portion of your cross section.	Hobby Lobby, Office Depot, OfficeMax, art supply store	
Triangular Engineers Scale/Ruler	For mapping projects.		NOT Architect's scale
Vinyl eraser	Get a good eraser to remove all lead from your map after you have inked it. Same for your cross section.	Hobby Lobby, Office Depot, OfficeMax, art supply store	Rectangle eraser (such as Staedtler)
White Out fluid	You will make mistakes when you ink and label your map, especially if you're up all night trying to cram. Make sure to have this!	Hobby Lobby, Office Depot, OfficeMax, art supply store	The white out with the pen tip is the best.

3. Supplies for Camping, Dorm Life and Time Off

The table below lists items you'll need for the dorm, the road trip and camping.

Camping Item Name	Rational	Suggested Retailer/Brands	Helpful Hints
Bed Sheets	The dorm does not provide sheets, either you use your sleeping bag on the beds, or bring a fitted sheet (for		Do not bring bed covers. If it is cold, use your sleeping bag.

Camping Item Name	Rational	Suggested Retailer/Brands	Helpful Hints
	single bed)		
Cell Phone	Cell reception is ok in Powell.		Think hard about taking your phone into the field – do you want to risk loosing it? Up to you.
Money – Cash, Debit, ATM, and/or Credit Card	For showers at the national parks, souvenirs and evening activities (~\$300). Plus you’ll probably want to buy souvenirs. Make sure to have plenty of spare money on you.		
Pillow	The dorms have flimsy, cheap pillows. Either use those or bring your own.		
MP3, Music player and headphones	It’s always good to have music while camping.		For personal and small group. I don't want loud music from radios filtering down the dorm halls or at camp.
Sleeping Bag	A mummy-style bag is best. Get one rated to at least 20 degrees F. The mummy bag will keep cold air off your face and protect against drafts. These pack much tighter & lighter than rectangular bags.	Cabela's, Gander Mountain, etc	Do NOT get a down bag. Once wet, down loses all of its warming properties, and you will freeze. Only get a synthetic bag.
Sleeping Pad	The pad will make sleeping easier on rocks under your tent.. The ground will suck all heat out of your body. Make sure to buy a water resistant/ proof pad.	Cabela's, Gander Mountain, Thermarest, etc	None
Tarp (or tent foot print)	It goes under the tent to keep water from coming up through the base of the tent	Get a sheet cut to ~12” wider than your tent's ground dimensions. Home Depot, Lowes, Menards, etc	None
Tent (2 person plus)	Try to bring a tent that fits at least 2 persons. Some of the camping locations may have restrictions on number of tents per site. <u>Be</u>	Cabela's, Gander Mountain, etc	

Camping Item Name	Rational	Suggested Retailer/Brands	Helpful Hints
	<u>prepared to share your tent!</u>		
Toiletries	Bring your shampoo, moisturizer (body and lips), sunscreen, your medicine, your toilet paper, and anything else you may need for a long road trip.		
Towels	You won't have a shower every day (especially when camping). Make sure to either bring towels or a camping towel for those days you do.		
Hacky Sack, Frisbee, etc	Blow off steam.		