



GEL490I
Geology of the European Alps & Surroundings – A Field Course
INTERNATIONAL PACKLIST

General:

A little planning will go a long way to making this a meaningful and pleasurable trip.

WHAT YOUR TRIP FEE WILL COVER (any overages will be reimbursed)

- | | |
|---|---|
| <input type="checkbox"/> All Ground Transportation starting in Nürnberg, DE | <input type="checkbox"/> All entry fees to parks, monuments, museums, etc. |
| <input type="checkbox"/> All lodging | <input type="checkbox"/> Administrative trip and instructor fees in accordance with University Policy |
| <input type="checkbox"/> Tram, parking, cable car, etc. fees | |



WHAT IS NOT COVERED BY YOUR TRIP FEE

- | | |
|------------------------------------|---|
| - Tuition | - Flights (or other transportation to and from our European starting destination) |
| - Course / MSU Denver related fees | - Meals |

TEXTBOOKS & MATERIALS

- Hard Cover Geology Field Notebook (4 3/4" x 7 1/2")
- Pfiffner, O.A., 2014, Geology of the Alps, 1st Ed., ISBN: 978-1118708125
- Hand-outs and electronic dossiers will be made available to students for all the academic readings.

Handy Cell-Phone Apps (optional)

	<p>RockD https://rockd.org/ Available for Android and iPhone</p>	<p>Uses GPS technology to identify the geologic formation you are standing on and provide details such as age, composition, stratigraphy, position, and elevation and much more.</p>
<p>Explore the world from your window seat with Flyover Country A mobile app for geoscience</p>	<p>FlyoverCountry https://flyovercountry.io/ Available for Android and iPhone</p>	<p>App will pull geologic information along the path of your flight, hike, or road trip with inflight maps and GPS tracking. Can be used offline (after trip download) to show maps with interactive POI and geologic data, such as geologic maps, landscape features, fossils digs, etc.</p>
	<p>Geology Sample Collector abandoned, but still available as APK download for Android https://www.apkfollow.com/download/arb_com.shopzeu.s.android.majorforms_1000_dcf35_2015-06-01.apk/</p>	<p>Document your field work incorporating images, video, audio recordings, and/or text. Track (with GPS) your path. Tracks sample collection sites and locations. Give it a try, it is free. Once your collecting is completed, you can automatically create a powerpoint or video of the sampling.</p>

TRANSPORTATION

We will be using minivans and/or cars / SUVs depending on enrollment. European vans allow 9 passengers max. including the driver. Seating might be tight and cargo / trunk space will be limited. Therefore travel luggage needs to be small and kept at a minimum.

Commitment: All drivers of our international rental vehicles must commit to a **ZERO alcohol & drug** policy at ALL times. If you can't abide by this rule, do NOT volunteer to drive.

Once assigned to a vehicle, please be courteous of the driver's requests. Help clean out the car during gasoline stops and volunteer to wash windows or participate in other helpful vehicle activities. Drivers should also be courteous of passenger's needs, such as bathroom breaks, or other reasonable requests.


PACKING

TRAVEL DOCUMENTS

Don't forget to bring your: Valid US Passport Credit / debit card International Driver's License (optional)

Important Note: Call your credit / debit card issuing bank to instigate travel duration and location for your card. Some cards are locked when trying to use them internationally unless you have such a travel authorization on file!

LUGGAGE ITEMS

- ONE SMALL carry-on sized suitcase and ONE hand bag (day pack) per person. *NOTE: European air carriers have smaller carry-on sizes + weight limits and allowances than their US counterparts.*
- International charging adaptor
- Cell-phone (and additional camera)
- Personal Hygiene Items / Toiletries
- Small First Aid Items (Band-aids, etc.)
- A light weight towel
- Wet Wipes (!) & Hand Lotion
- Swim trunks / Bathing suits
- Modest PJs
- Day-trip modest covers for visiting cathedrals
- Umbrella (small) / rain coat
- Underwear / socks
- T-shirts, one or two long sleeved items
- Comfortable pants (at least one pair of long pants)
- Beanie hat & sweater or hoodie
- Firm hiking shoes (boots not necessary)
-  Prescription Medication

FOR HIKING / DAY TRIPS

- Daypack
- Water Canteen / Bottle
- Good hiking shoes
- Jacket or Hoodie
- Your camera / cell phone
- Field Notebook & Pen
- Rain coat or poncho (small to carry in day-pack)
- Broad-brimmed sun hat. Beanie hat.
- Sunscreen, sunblock (40+).
- Sun glasses.
- Protective cell phone case / pouch!
- Drinking Water
- First aid items, especially band-aids.
- Snacks / Trail Mix
- Lunch box or bag
- Spare change for bathrooms

SPECIFIC COURSE MATERIAL YOU SHOULD BRING ON DAY TRIPS

GEOLOGY TOOLS (GENERAL)

- Heavy Duty Sampling Bags (Ziplock™). You can purchase upon arrival!
- Small index cards to place with sample into ziplock
- YOUR FIELD NOTEBOOK (hardcover /waterproof)
- Day Pack Backpack to carry it all (Well, duh!)
- Camera or Cell phone Camera
- Cell phone off-line map app and GPS
- Sharpie™
- Short Ruler
- Protractor Ruler (6 in)
- Small Tape measure (~2m length)
- Acid Bottle, Handlens, Streak Plate, Magnet
- A few small sample bottles for small specimens
- Pocket knife (Swiss Army style)
- Toilet paper or paper towels (to wrap specimens) ...and possibly other important business ☺



Optional, not required, but will come in really handy

- Pocket microscope
- Dr. K's Manual of Rapid Mineral Identification
- Lighter
- Magnets (Keep those far away from your Brunton™, especially during measurements)
- Cell phone metal detector app
- Cell phone Geiger counter app
- Chisel
- Cell Phone Calculator
- UV Light

FOOD

Food is NOT provided through trip fees other than occasional dining out at the discretion of the trip leaders. We will stop at supermarkets and budget friendly fast food outlets for most of our meal needs. Small groups for combined food purchase and cold lunch preps may be advantageous.

SOME GENERAL CONSIDERATIONS

Showers and Washing clothes: Availability for taking a shower is given since most of our lodgings come with private bathrooms. On occasion, community facilities may need to be shared. Washing clothes during the trip will be a greater challenge. If our lodging accommodation do not provide laundry facilities we will try to find at least one Laundromat halfway through the trip.

Cell Phones: Make sure your cell phone is international capable. While cell phone coverages is usually good, we might experience occasions with lost signals. A protective case / pouch for your cell phone is a good idea.

Clothing: Be prepared for both cold and hot weather conditions. Remember “LAYERING”! Shorts and T-shirts make good hiking clothes when the weather is hot. A jacket or hoodie can be slipped on should conditions change. Bring a raincoat / umbrella! With higher precipitation averages than Colorado you will be bound to have rainy days.

Footwear: You should bring some comfortable, broken in hiking shoes and quality socks. Hiking boots are not necessary and will add weight to your luggage unless you wear them during the flight. Just in case, bring some blister tape for your feet.

Food & Eating: Breakfasts are commonly included with our lodging accommodations and are most likely rich, with great varieties and nutritious. A wide selection of cold cuts and cheeses are common for breakfasts. The famous Swiss grain based breakfast Müsli with nuts, raisins and oats is also served. For lunches you have the option to prepare sack lunches supplied to readily available supermarket chains. Dinners are dine out. We will look for budget friendly options around our accommodations. .

Facilities: Are available but not as frequent as in the US. Many cost a few cents, so bring your bathroom change. Passengers, announce bathroom needs EARLY!!!!

Buddy System: Yes, you never outgrow this common sense admonition. If you want to go exploring, please take someone with you. In addition, let an instructor know where you are planning to go and when you intend to be back. **Please take this serious!** We have wasted many hours searching for “lost” students where nobody knew where they went.

Water & Drinks: Europe has an amazing selection of natural mineral waters, some fizzy, which is very popular but also with low or no gas. These will supply all your daily electrolytes naturally without the need for supplements. While soda and softdrinks are available, fruit juices mixed with mineral water are a healthier alternative. These are common in every supermarket and are surprisingly inexpensive.

INJURIES (especially minor ones): Sometimes students play macho when they have been injured during a hike or otherwise. Untreated injuries can become severely infected and unfortunately we had students in the past that suffered needlessly or developed painful and long lasting nasty scars. As a general rule please report ALL injuries to an instructor, even if you think it is benign. This includes for example blisters and sunburn.

Be aware that instructors are not allowed to dispense medication or treat you. They could, however, drive you to a clinic or a pharmacy if needs be to initiate your own treatment and prescriptions.

ANAPHYLACTIC ALLERGIES: If you have severe allergies that require anaphylactic medication, let the instructor’s know. Bring all your necessary medication, e.g. EpiPen®. You should also train a trip “buddy” to intervene in your behalf and if necessary administer those medications in case of exposure and reaction. Please make sure you have the required paperwork for entering a European country with your medication.