Field Camp Application – Summer 2021

School of Geosciences
University of Louisiana at Lafayette
P.O. Box 44530
Lafayette, Louisiana 70504
Field Camp Director: Dr. Gottardi

Please reserve a position in the summer field course for me.

Name (print) _____

Now attending _____

Current mailing address _____

_____

Phone _____

Email _____

Permanent home address (if different from above)
_____

_____

Do you have any physical condition that might be adversely affected by normal field course activities such as hiking in inclement weather, camping, etc.?

- ○ No
- ○ Yes *(If"yes", please explain at the end of this form)*

Do you have any relevant medical condition including allergies, asthma, diabetes?

- ○ No
- ○ Yes *(If"yes", please explain at the end of this form)*

Emergency contact (2 people) name, phone #, address, email

1. _____

_____

2. _____

_____

Overall Cumulative Grade Point Average (GPA):_____

Courses completed prior to camp: *(check those completed, or equivalent)*

- ○ Physical Geology
- ○ Structural Geology
- ○ Mineralogy/Petrology
- ○ Sedimentology
- ○ Field Methods
- ○ Stratigraphy

Other relevant:

Year in School"

- ○ Sophomore
- ○ Junior
- ○ Senior
- ○ Graduate

I have read all the information on the syllabus concerning the operation and requirements of the field camp and agree to them.

Signature of Applicant: Date:

Please return completed application form to: Field Camp Director at the address above.

Additional notes:

GEOL 400 - GEOLOGY SUMMER FIELD CAMP

Instructors

Dr. Raphael Gottardi (gottardi@louisian.edu),
Kristie Cornell (kcornell@louisiana.edu
Dr. Davide Oppo (davide.oppo@louisiana.edu)

Class schedule

See attached sheets for itinerary and dates

Textbook

No formal text required; see handouts and reprints for detailed information.
Some useful textbooks: *Geology in the field*, by R. Compton; *Geological Field Techniques*, by A. Cole.

Course Policies

- Students are responsible for familiarizing themselves with the Student Handbook, the UL Undergraduate Bulletin, the Code of Academic Honesty, and all other course policies, such as safety policies, notebook requirements, asking questions, etc.
- All assignments must be turned in on time, ***no exceptions***.
- Late assignments are penalized one point per minute. A similar one point per minute penalty is given for any tardiness for gathering or leaving times, e.g., in the mornings, after lunch, or coming out of the field, etc.

Attendance

Obviously, students must attend the field camp and complete all assignments. The following is quoted from the class attendance policy adopted in the UL undergraduate bulletin: *"Class attendance is regarded as an obligation as well as a privilege, and all students are expected to attend regularly and punctually all classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and may lead to suspension from the University…."*

Grades

Grades are based on assignments given throughout the field course according to the guidelines established in handouts (Neatness, Labeling, Structure, Geology, etc.). Specific point assignments will be explained prior to each assignment. The total value of each assignment is shown on the attached sheet. Final Letter grades will be assigned approximately according to the total % earned by the student as shown below:

Final Course Grade as related to Total %
F < 60 < D < 70 < C < 80 < B < 90 < A < 100%

Term Paper and Chart:

Each student must turn in a Term Paper and an Event Correlation Chart which are due at the end of the summer course (upon arrival in Lafayette). The Paper will be no more than 10 pages long and titled "The Geologic History of Western North America". It will be a written summary of the events listed on the correlation chart which is a summary of the features that have been seen throughout the field course.

Safety Policy

This course is one which involves strenuous physical activity in a variety of settings, including rugged terrain and along and on busy roadways. You can and will encounter dangerous situations and each person must observe safety procedures at all times. Each student must sign and submit a release form. Also, everyone must have (and observe) the following statement in every notebook that is used: "Field work is inherently dangerous: safety is our number one priority." Check the appropriate publications and notes to assure that you know the safety and emergency procedures. Failure to observe safety procedures can result in scholastic penalties and even dismissal from the course.

GEOL 400 –Geology Field Camp Itinerary

May 17th – June 27th, 2021

Week	Day	Date	Location	Project
		(-2)	Lafayette (LA) -> Wichita Falls (TX)	[550 miles]
		(-1)	Wichita Falls (TX) -> Albuquerque (NM)	[520 miles]
Week 1	1	17-May	Albuquerque (NM) -> Moab (UT)	Regional overview / Intro to field camp
	2	18-May	Moab Rim Campark (Moab, UT)	Regional Geology, **Arches NP**
	3	19-May	Moab Rim Campark (Moab, UT)	Regional Geology, **Canyonlands NP**, Intro to projects
	4	20-May	Moab Rim Campark (Moab, UT)	Project [01]
	5	21-May	Moab Rim Campark (Moab, UT)	Project [02]
	6	22-May	Moab Rim Campark (Moab, UT)	Project [03]
	7	23-May	Moab Rim Campark (Moab, UT)	**Day Off**
Week 2	8	24-May	Moab (UT) -> Cedar City (UT)	Regional Geology
	9	25-May	Cedar City KOA (Cedar City, UT)	Project [04]
	10	26-May	Cedar City KOA (Cedar City, UT)	Project [05]
	11	27-May	Cedar City KOA (Cedar City, UT)	Project [05]
	12	28-May	Cedar City KOA (Cedar City, UT)	Project [06]
	13	29-May	Cedar City KOA (Cedar City, UT)	Project [06]
	14	30-May	Cedar City KOA (Cedar City, UT)	**Visit Bryce Canyon NP**
Week 3	15	31-May	**Memorial Day** Cedar City KOA (Cedar City, UT)	Project [07]
	16	1-Jun	Cedar City KOA (Cedar City, UT)	Project [07]
	17	2-Jun	Cedar City KOA (Cedar City, UT)	**Visit Zion National Park**
	18	3-Jun	Cedar City KOA (Cedar City, UT)	Project [08]
	19	4-Jun	Cedar City KOA (Cedar City, UT)	Project [09]
	20	5-Jun	Cedar City KOA (Cedar City, UT)	**Work day (Switch)**
	21	6-Jun	Cedar City KOA (Cedar City, UT)	↔ **Day Off (Switch)**
Week 4	22	7-Jun	Cedar City to Rock Springs	**Dinosaur NM**
	23	8-Jun	Rock Springs to Greybull (WY)	Uinta Uplift, Sinks of Landers
	24	9-Jun	Greybull KOA (Greybull, WY)	Tectonic Overview and Structural Styles
	25	10-Jun	Greybull KOA (Greybull, WY)	Regional Geology - Paleozoic Section
	26	11-Jun	Greybull KOA (Greybull, WY)	Regional Geology - Mesozoic Section
	27	12-Jun	Greybull KOA (Greybull, WY)	Project [10]
	28	13-Jun	Greybull KOA (Greybull, WY)	**Day Off**
Week 5	29	14-Jun	Greybull KOA (Greybull, WY)	Project [11]
	30	15-Jun	Greybull KOA (Greybull, WY)	Project [12]
	31	16-Jun	Greybull KOA (Greybull, WY)	**Work Day**
	32	17-Jun	Greybull KOA (Greybull, WY)	Project [13]
	33	18-Jun	Greybull KOA (Greybull, WY)	Project [13]
	34	19-Jun	Greybull KOA (Greybull, WY)	Project [13]
	35	20-Jun	Greybull -> Red Lodge (MT)	**Work day / Regional Geology**
Week 6	36	21-Jun	**Memorial Day** Red Lodge (MT)	Project [14]
	37	22-Jun	Red Lodge (MT)	Project [14]
	38	23-Jun	Red Lodge (MT) to Gardiner (MT)	**Yellowstone NP**
	39	24-Jun	Gardiner to Colter Bay campground	**Yellowstone / Tetons NP**
	40	25-Jun	Colter Bay campground	**Tetons NP (Day Off?)**
	41	26-Jun	Colter Bay campground	**Tetons NP**
	42	27-Jun	Colter Bay campground -> Denver	
		(+1)	Denver (CO) to Wichita Falls (TX)	
		(+2)	Wichita Falls (TX) -> Lafayette (LA)	

GEOL 400 – GEOLOGY FIELD CAMP
Projects and Grading

Project 1: Moab area	60
Project 2: Moab area	60
Project 3: Moab area	60
Project 4: Cedar City Area	60
Project 5: Cedar City Area	60
Project 6: Cedar City Area	60
Project 7: Cedar City Area	60
Project 8: Cedar City Area	60
Project 9: Cedar City Area	60
Project 10: Big Horn Basin	60
Project 10: Big Horn Basin	60
Project 11: Big Horn Basin	60
Project 12: Big Horn Basin	100
Project 13: Big Horn Basin	180
Project 14: Stillwater complex	60
6 Notebook Checks (10 points each)	60
Correlation Chart: age & Correlation of Major events	60
Paper: Geologic History of Western North America	60
Safety, Attitude, Participation	100
Total	**1240**

GEOL 400 – GEOLOGY FIELD CAMP
General Guidelines and Approximate Grading Scheme

(look at standard published Geologic Maps to get an idea of what is to be included)

1) Neatness: (5 to 15 points)

Layout, clarity, appearance, etc.

2) Title, Key, etc. (10 to 25 points)

- Usually at **top** of map: Title, Name, Partner, Date, etc.; North Arrow w/ Mag. N (labeled and w/ exact angle of declination)
- Usually at **bottom** of map: Scale (Bar type w/ units (km, m, mi or ft- not'], ratio can also be stated, (e.g., 1:24,000), contour interval
- Key/Legend/Explanation
- Contacts (dotted where concealed, dashed where inferred), Fault(s) (if present, U/D or stick & ball, arrows), S & D (if needed), fold(s) (if needed), roads, trails, streams (intermittent, etc.), contours, contour interval, any other standard natural or cultural features; Units w/ symbol , box (w/ color), description of major map units: in proper order (oldest on bottom, etc.), Age/time units (Eon, Era, Period, Epoch, Age) or time- rocks units (Erathem, System, Series, Stage, etc.), and/or Rock Units (Supergroup, Group, Formation, Member, etc.), to the left of boxes & symbols

3) Structure (10 to 25 points)

Fault(s) (type, extent, accuracy, etc.), Fold(s) (type, plunge, extent, accuracy, etc.), S & D/Horizontal; correct type, placement/location/distribution, extent, etc.

4) Geology (25 to 50 points)

- Units Contacts: completeness, accuracy
- Units Description correctness: rock name(s), color, composition, texture, structures, feature(s)-bedding, layering, fractures, crossbeds, ripples, mudcracks, graded bedding, sorting, etc.; phenocrysts, groundmass, pumice (squashed= fiamme, eutaxitic), ash, pumice, fragments/glass/crystals/lithics, vesicles, amygdules, flow banding, etc.; foliation, porphyroblasts, relict features…

5) Cross Section (0 to 20 points)

- Topo. Profile accuracy, corr. w/ map; struct./faults/folds/w/dip
- Geol. Units (w/ correct symbol, e.g. Qal); title, name, scale, V.E., etc.

GEOL 400 - Field Camp Equipment

Things to bring – bring what is needed and just a little bit more: be reasonable! There are laundromat at all the campgrounds we stay at to do your laundry. We typically stop to buy groceries everyday night before heading back to camp, so please do not over-pack any food or perishable. We will go through all equipment and get rid of excessive material. Please pack all your gear in a duffel bag or suitcase (note that hard suitcases may get damaged in the trailers).

Personal Clothes
All clothes should fit in one moderate sized suitcase or duffel bag and one small overnight bag. Items include:

- 1 week worth of clothes (shirts, shorts, underwear, long sleeve shirts, long pants)
- warm clothes (including hat and gloves), and rain gear
- towel
- comfortable shoes/sandals (flip flops for showers at campgrounds)

Camping Gear

- tent and tarp
- sleeping bag and pad
- flashlight
- plate, mug, utensils
- cooking pots and pans (nested kit for 3-4 works well)
- stove and fuel *(consider sharing with other people)*
- ice chest (medium size) *(consider sharing with other people)*

Field Gear

- day backpack that is big enough to carry lots of water, lunch, clothes, notebook (~35L will do)
- hiking boots and socks
- field pants and shirt
- couple of hats
- water bottles (equivalent of **1 gallon / person**)
- sunglasses
- sun tan lotion, bug spray, 1st aid kit
- pencil/pens, sharpie, eraser, angle, ruler, clipboard
- **geology hammer (Eastwing), head lens (triplet, 10X), (compass provided)**

Food
This is highly variable upon individual preferences, but once again bring what you prefer within reason: there is no way you can bring all the food or drink you will need for the entire trip! So plan along and stock-up on the way. We typically stop to buy groceries everyday night before heading back to camp, so please do not over-pack any food or perishable. We will stop for “fast-food” as we travel or you can make a lunch or eat out of an ice-chest. **Do not bring huge quantities of food or drink!**

Other

- phone, computer (not suggested), chargers
- medicine (cold, cough, Tylenol, prescription)
- toiletries
- laundry detergent