International Volcanological Field School Investigating the White River Asheruption and magnastorage from Mt Churchill, Alaska

GROS 624-3 aedits

Acceptance into the course is contingent upon 1) a completed application, 2) areference letter; and 3) permission of instructor

Syllabus for International Volcanological Field School, White Piver Ashsession, Summer 2024

for the trip Students must be willing to follow a high level of safety protocols and standards in the laboral pass a lab safety test before starting experiments

*Perringaproval of fee justification includes shared domitory room at UAF for the duration of the course if students wish to find their own housing or are local, the course fees can be reduced

GKOS 424 will be a hybrid field and laboruse experience, suitable for undergaduates who would like to learn mure about Akala volcarism, basic field methods, and combine those with hards on learning about high pressure and temperature magna experiments.

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This couse will use a combination of instructional methods traditional inclass lectures, hands on learning of volcanology and tephnochronology field work methods, field note taking practice, hands on laboratory methods training field and laboratory safety training

(note-this schedule is subject to charge, but should give you a general idea of what to expect)

Day 1: July 14th or earlie: Anive in Raibarks Hease an arge for travel to UAF. Be prepared to an arge for your first right of lodging and transportation to and from UAF.

Jly 15^h: **Idholillas Bata kataljasjike kutiti fiplojin** (Akat**ita) katalir kititik kit**italiiw breaks ard kurd)

Location Reidrard: building at UAF

- -Lecture 1 Alaska tectorics, Wrangell Volcanic Field
- -Lecture 2 Mt Churchill and the White River Asheruption, Physical volcanology 1 Carchite dynamics, plume dynamics
- -lecture 3- Hirianstyle cruptions, is a path mapping VII determination
- -Heldpreparation-wewill goover the field gear and make sure every one is all set! We will sort through and pack up the field food

Jly 16 Wewill neet at 800

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Jly22-ReturntoRibarks (about a 4 hourdise) by midday. Urpackthe vans, deckinto the doms, archest archelax

Jly23 Introduction to experimental petrology. Location Reichard: building UAF

- -lecture 4-using petrology to estimate magnastorage conditions, tour HMAkb
- -lecture 5 Experimental petrologyand phase equilibria, tour expet leb
- First day- all hards safety, SOP, and potocols lecture and demonstration of methods

SafetyQ.iz-stucknts.m.st.passthesafetyq.iztobeabletoparticipate in the experiments

Lly31 (6to8hous): Groupphasedagamassemblysession in the noming presentations in the afternoon

Lly31 evening Farevell dirner! Students may depart this evening or the following morning

Sturbets are expected to participate in all class activities and gaded assignments. All participants must be willing to listent o and abide by important safety information and safety related instructions given by instructor both in the field and in the lab. Sturbets should conduct themselves in a manner that is inclusive and respectful of others. No drugs, alcohol, or fire ams will be allowed during the field trip. Sturbets will record their field observations in a motebook according to the examples given on the first day before the field trip begins. Sturbets will also keep alaboratory notebook to record experimental parameters for their runs. The 400 level sturbets will participate in the presentations with a graduate sturbet teammen ber: The 600 level sturbets will be expected to be potentiar the undergraduates in their experiments and presentation work.

Sturkntsshouldbringtheir own camping gran: However, if this is a banier to participation, please contact the instructor who camprovide you with loaned gran:

- -Tent
- -Rainjadet and parts
- -Bignetant/orbigspay
- -Avaietyof layers for dilly or wet nights as well as warms un yelys
- -Rainjadet and parts
- -Langsleeve van mfleece jadet
- -Httforsungrain
- -Studyshoes or light weight hiking boots
- -Rinbotsifyoupefer(ile Xua Tuffbart)
- -Surglasses
- -Surscreen
- -Sleepingbag
- -Seeping pad
- -1 Lwaterbottle(s) for personal use
- -Rescretestingger (bowl, cup spoor)
- -Fieldnotebookandpends
- -Hardlers
- -HardreldGPS- optional
- -Any recessary medications or other personal items you can't live without
- -Small personal first aid lit
- -Laptopfordess and labsessions

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We will provide campgound coding gran and related utensils, waterjugs, and other communal campitens. Instructor will have a first aid lit, satellite phone, and in Reach device for energy roles.

Fieldnotebook
Safetyezam- must pass to be allowed to do experiments
Isopachassigment - ackamed modeling
Make acaptule
Helpload and quench one run
Helpload and quench one run
Helpload and quench one run
Iabnotebook
Rhyolite MHTS modeling assigment
Mentouship reflection assigment
Final presentation

Notebooks 20% total, 10% each
First presentation 25%
Safety Evam 10%
Isopachassigment: 10%
Capsule, plus load and quenchrun, and make thick section (participation): 10%
Rhyolite MHTS: 10%
Mentorship reflection 15%

Letter garks for the course will be given according to the following percentage scale according to the assignment percentages listed above A+ (100-97), A(96-98), A (92-90), B+ (80-87), B(86-83), B (82-80), C+ (79-77), C(76-73), C (72-70), D+ (69-67), D(66-63), D (62-60), F(59-0).

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	Volcaric ash
	The encyclopedia of volcances
(vill be provided to	oya.)
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	The encyclopedia of volcances
	Radiocarbon 62
Volcanoen	Bulletinof

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UAF Department of Equity and Compliance 1760 Farana Loop, 355 Durkering Building Fairbarks, AK 99775 907-474-7300 uaf deo@akskaedu

I will wak with the Office of Disability Services to provide reasonable accommodation to students with disabilities. The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials. I will wak with the Office of Disabilities Services (208 Writaker; 907-474-5667) to provide reasonable accommodation to students with disabilities us feel u'disability activity. In the provide reasonable accommodation to students with disabilities us feel u'disability activity.