## Field Education Supplemental Support Request

For all requests related to field education support, please complete this form after submitting a regular UNAVCO Request Support: <a href="https://med.unavco.org/newproject/supportform.aspx">https://med.unavco.org/newproject/supportform.aspx</a>
This will ensure that both you and UNAVCO have all the information needed for a high quality student learning experience. Please know that UNAVCO is very committed to supporting field education but has limited resources to do so. Support is contingent on availability. Support beyond curricular assistance will often require some funding from the requester (ex. shipping).

*	* Required  . Email *		
1.			
Pr	rimary Contact Information	-	
2.	First Name *	-	
3.	Last Name *	-	
4.	Phone Number *	-	
5.	Email Address *	-	

6.	Affiliation *		
7.	Shipping address for equipment (if equipment is requested)		
С	ourse Information		
8.	Course name *		
9.	Course duration *		
10.	Anticipated dates of UNAVCO support *		
11.	Approximate number of students in course *		

12.	Course	level *
	Check all that apply.	
	Uppe	duate er-level majors er-level majors oductory; non-majors
	quest tails	Please indicate the geodetic method and type of support requested from UNAVCO. (NOTE: Support is contingent on availability. Support beyond curricular assistance will usually require at least some funding from the requester.)
13.	Terrestr	rial laser scanning (TLS)
	Check all	l that apply.
	Curriculum support (ex. consultation about exercise ideas)	
	Instrumentation (ex. scanner)	
	Field Engineering (if scanner is requested, then field engineer will most likely be needed too)	
14.	Structu	re from Motion (SfM)
	Check all	I that apply.
		iculum support
		rumentation (ex. targets, pole, UAS) d Engineering
15	Vin e me e	*:- CDC
15.	Kinema	tic GPS
	Check all	l that apply.
		iculum support
		rumentation (i.e. survey-grade GPS, typically a teaching set of Emlid ReachRS2) d Engineering

16.	Static (campaign) GPS		
	Check all th	at apply.	
	Curricu	lum support	
17.	Other con	nments related to support request	
18.	What type	e of training or experience do you have with your requested method/s? *	
Fie	TSI Id aching	Please review the existing GEodesy Tools for Societal Issues (GETSI) resources for teaching with geodetic field methods. Even if you do not plan to use these resources, reviewing the materials may help you consider the necessary pedagogical components. UNAVCO is the lead organization on the GETSI project>Analyzing High Resolution Topography with TLS and SfM - <a href="https://serc.carleton.edu/getsi/teaching_materials/high-rez-topo/index.html">https://serc.carleton.edu/getsi/teaching_materials/high-precision/index.html</a> >High Precision Positioning with Static and Kinematic GPS/GNSS - <a href="https://serc.carleton.edu/getsi/teaching_materials/high-precision/index.html">https://serc.carleton.edu/getsi/teaching_materials/high-precision/index.html</a>	
Re	sources	This webinar overviews the two geodesy field modules may also be helpful if you are not already familiar with the resources:>Integrating GPS, SfM, and TLS into Geoscience Field Courses -	

https://serc.carleton.edu/integrate/workshops/webinars/2017\_2018/field\_geodesy/index.html

19.	Do you anticipate using these provided resources? *	
	Mark only one oval.	
	YES	
	NO OR UNSURE Skip to question 23	
20.	If yes, which if any units are you planning on using from "Analyzing High Resolution	
	Topography with TLS and SfM"?	
	Check all that apply.	
	Unit 1-TLS	
	Unit 1-SfM Unit 2	
	Unit 2.1	
	Unit 3	
	Unit 4 Unit 5	
21.	Which if any units are you planning on using from "High Precision Positioning with Static and Kinematic GPS/GNSS"?	
	Check all that apply.	
	Unit 1	
	Unit 2	
	Unit 2.1 Unit 2.2	
	Unit 3	
22.	If you plan to modify the GETSI resources, please summarize anticipated changes?	

## Learning Outcomes

What are the desired learning outcomes in your geodesy field teaching? i.e., what do you want the students to be able to know and do by the end of the geodesy field methods activities? If you plan to use the GETSI teaching resources fairly close to as-is, you can say "see GETSI units selected above". If you plan to do something significantly different, please give your learning goals here.

Resources on writing learning goals:

https://serc.carleton.edu/integrate/info\_team\_members/currdev/effective\_materials/learning\_goals.html

23.	What are th	e desired learning outcomes? *	
Ass	essment	How will student learning be assessed? How will you determine that the outcomes you defi are achieved? Project write-up? Students apply knowledge to new field site? Exam? Again in use the GETSI resources pretty close to as-is, you can say "see GETSI units selected above! Resources on designing assessments that match learning goals: <a href="https://serc.carleton.edu/integrate/info_team_members/currdev/effective_materials/asses]">https://serc.carleton.edu/integrate/info_team_members/currdev/effective_materials/asses]</a>	f you plan to ".
24.	How will stu	Ident learning be assessed? *	
	dent	With geodetic many instruments, not all students can be involved in using/running the equipment at all times. The most successfully field education projects have secondary tasks for the students to work on while a subset of the class actually operates the equipment. Examples include:  1. Recording contextual information such as: taking detailed field notes, photographing the outcrop/field area, strike/drip measurements, and drafting a site map  2. Making calculations or prepare for subsequent surveys	

3. Compiling a list of required equipment

(e.g., project purpose, methods)

4. Developing a standard operating procedures list

5. Starting working on components of the final write-up that can be completed early

	How will you manage student time when some of them are not actively engaged in running equipment? *		
Logistics - 1		Please outline your anticipated schedule.	
days? *	pics and activities do you expect the st	udents to be doing each of the	
Logistics - 2	At what site/s will the geodesy field education Considerations include:  1. Compact sites with limited vegetation are proceed 2. Close proximity (<1 mile) to road so equipment students and instructors  3. Interesting and relevant geoscience question diffusion, fluvial terrace risers and cut banks, p	eferable ent can be efficiently transported by the n. (E.g., stratigraphic analysis, fault scarp	
7. Describ	e the field site/s. *		

Do you have the computing resources necessary to accomplish the desired learning outcomes?

If you are not sure, please describe the computing resources available. Considerations include:

## Logistics

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- 1. Do you have a computer lab with appropriate software, or the ability to add software? For example, if you expect students to do significant data processing and analysis, GIS software and/or other method-specific processing software will be necessary.
- 2. If not, will a majority of your students have laptops onto which the necessary software can be installed?
- 3. What process will you use to distribute gigabytes of data to all the students (e.g., central server for file sharing, hard/thumb drives, students will have on their own devices)?

28.	Describe your computing resources. *		
Log - 4	gistics	If you plan to use a UAV (uncrewed aerial vehicle) as part of the instruction, what permissions are needed from your institution and intended field site? Have you secured permission yet? Do you have FAA Part 107 Certification (Small Unmanned Aircraft Systems)?	
29.	Describe	e UAV considerations with your institution and planned field site/s.	
Log - 5	gistics	If you are requesting an equipment loan, you or someone else at your institution will need to assume responsibility for the equipment while it is in your possession. If someone else BESIDES YOU will be the one to sign this loan agreement, please provide their contact information here.	

30.	Name (if signer will be different than you - e	x. department chair)
31.	Email (if different than you)	

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