



**Teacher Application  
MapTEACH Summer Course  
July 30 - August 10, 2007  
University of Alaska Fairbanks**

To apply for this course, please (1) fill out the information below; (2) complete the Survey of Knowledge and Abilities and; (3) return this entire application by May 11, 2007 to the address on page 4.

I would like to participate in the *MapTEACH* program and agree to the following:

How I will benefit/what I will receive:

- Two week summer MapTEACH institute (July 30 -August 10), including classroom, computer and field activities
- Three or 4 graduate credits from the University of Alaska Fairbanks (amount of credit dependent upon commitment to field test MapTEACH activities)
- Teaching activities; computer software and GIS data; maps and air photos specific to home community
- Follow-up support through emails, audio conferences and regional meeting.
- Assistance in establishing partnerships with science professionals and local experts
- Authorization to check-out MapTEACH classroom, field and technology kits for implementation at my school

What is expected of me:

- Actively participate in the MapTEACH Summer Institute (July 30 - August 10)
- Provide feedback during and after the institute on ways to improve the MapTEACH program
- To the best of my ability, implement MapTEACH with students within one year and share examples of student work and my own reflections of “how it’s going” with MapTEACH project personnel
- To the best of my ability, collaborate and share materials and ideas with other teachers in the MapTEACH program and other teachers at my school

Name		Signature			Date	
Email address			Grade level (s)		Subject(s)	
Home address					Home phone	
School					School phone	
School address					Fax	
Student population:	% African	% AK Native	% Asian	% Spanish Speaking	% Other	

## Survey of Knowledge and Abilities

Name: \_\_\_\_\_

Date: \_\_\_\_\_

This survey covers many of the skills and topics related to the summer course. We are asking you these questions to get a sense of how comfortable or confident you are in these areas *now*. Your answers will help us to customize our work to participant needs. We will ask you to take this same survey at the end of the course. Your answers will be kept confidential and will help MapTEACH plan and improve our project. Thank you.

### Computers and Mapping

1. Check the box that best describes how comfortable or confident you are now: (one answer for each item).		Extremely confident	Very Confident	Confident	Somewhat confident	Not confident
a.	Organize, save and find folders and files on computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	Search for information and files on the internet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	Download data from the internet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d.	Add data into a computer database	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e.	Use spreadsheets to analyze data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f.	Edit digital pictures on computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g.	Use a global positioning system (GPS) unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h.	Use geographic information systems (GIS) software to make maps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i.	Add GPS locations and information into a GIS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j.	Use computers to make presentations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k.	Describe the basic characteristics and themes of maps.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l.	Choose appropriate maps to answer specific questions about issues such as land ownership or geologic hazards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m.	Use data and a variety of symbols and color to create thematic maps.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Traditional and Local Knowledge**

		<b>Extremely confident</b>	<b>Very Confident</b>	<b>Confident</b>	<b>Somewhat confident</b>	<b>Not confident</b>
2.	Check the box that best describes how comfortable or confident you are now: (One answer for each item).					
a.	Gather oral and written information from Elders and local community and understand its importance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	Name, locate and describe the significance of local landmarks, traditional places and trails near your community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	Describe the ecology and geography of the place you live.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Landscape Knowledge-Geosciences**

		<b>Extremely confident</b>	<b>Very Confident</b>	<b>Confident</b>	<b>Somewhat confident</b>	<b>Not confident</b>
3.	Check the box that best describes how comfortable or confident you are now: (One answer for each item).					
a.	Work with maps, aerial photos and satellite images to locate and identify geographic and geologic features.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	Explain the process of erosion and deposition in a river system and describe the key factors that influence this process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	Describe where you'd expect to find permafrost in the Interior and explain how it influences landforms, erosion and flooding.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	Predict where river or permafrost hazards are likely to occur, describe their causes and plan how to avoid dangerous events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4.	<b>OVERALL:</b> How comfortable or confident are you overall in these areas? (One answer for each item).	<b>Extremely confident</b>	<b>Very Confident</b>	<b>Confident</b>	<b>Somewhat confident</b>	<b>Not confident</b>
1.	Computers and Mapping	o	o	o	o	o
2.	Traditional and Local Knowledge	o	o	o	o	o
3.	Landscape Knowledge-Geosciences	o	o	o	o	o
4.	Bring knowledge and skills from all the above together to make sense of Alaskan environment	o	o	o	o	o

5. Is there anything else you would like say to help us understand what you bring to this course and what you are looking for? If yes, please describe.

*Please return by May 11, 2007 to:  
 Sidney Stephens  
 University of Alaska Fairbanks  
 Box 757200  
 907-474-7628 or FAX 907-474-6184  
 ffs1@uaf.edu*