

## Student Technology Fee Request for Funding-Page 1

Program Title: **GPS Systems and Lower Division Learning**

Campus Affiliation: **Center for University Studies and Programs (CUSP)**

Contact Person: **Gray Kochhar-Lindgren, Director** Email: [gklindgren@uwb.edu](mailto:gklindgren@uwb.edu)

Campus Phone No. **2-3670**

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### **Brief Project Overview**

Many schools are experimenting with the use of GPS systems for various student projects. As a pilot for UWB, I would like to apply to purchase 10 units and work with first and second year courses to implement GPS based activities, ranging from the environmental sciences to the arts. A basic goal is to increase the technical knowledge of students in the uses of GPS systems and deepening the campus's sense of innovation.

### **Full description of the project that includes the following sections:**

- A. The goal of the program or project:** The goals of the project are to incorporate GPS units into a variety of lower division classes, including the Discovery Core; to experiment with various uses of the units in small student-faculty-staff projects, including the arts and the natural and social sciences; to train students in this technology; and, to increase the sense of innovation on campus.
- B. A description of the program and how it will benefit the student body:** Students would be encouraged to design GPS projects connected to both classroom and community projects. The student body will benefit from the project because it provides a cutting-edge experience of technology in and beyond the classroom; local and national links with other students employing GPS units in projects; a sense of responsibility for designing creative and useful projects; an undergraduate research experience; and building knowledge about visual analysis and mapping technologies, which are appearing in a number of fields of study. Here is a small range of options:

#### **Sample Uses:**

What is GPS Art? (A Freshman Seminar Presentation at Princeton University):

[http://grothserver.princeton.edu/~groth/frs142s04/Presentations/Emily\\_Presentation.ppt](http://grothserver.princeton.edu/~groth/frs142s04/Presentations/Emily_Presentation.ppt)

GPS and Geocaching: <http://www.ncsu.edu/meridian/win2007/gps/index.htm>

Sciences: <http://sciencespot.net/Pages/classgpslsn.html>

Surveying: <http://www.uwf.edu/cutla/QEP/presentations/Mayo--QEP.pdf>

Social Sciences: <http://www.dartmouth.edu/~vfund/socsciences.html>

Stanford Humanities Lab: <http://humanitieslab.stanford.edu/2/186>

Art: <http://www.gpsdrawing.com/>

Art: <http://transition.turbulence.org/blog/2005/03/30/gps-art/> (with cell phones)

**Bibliography:** *Global Positioning Systems: A Field Guide for the Social Sciences* (Spencer et al)

*Art and GPS* (Levine): <http://leoalmanac.org/resources/curriculum/locativemedia/plevine.asp>

*Geocaching*: <http://en.wikipedia.org/wiki/Geocaching>

- C. Specific information about the equipment and/or services being requested:**

XXXXX <http://www8.garmin.com/outdoor/geocaching/units.html>

- D. **How the project will be implemented and by whom.** Gray Kochhar-Lindgren, the Director of CUSP, will organize and facilitate projects that will run through and outside of classes. He has already received statements of interest from several environmental scientists, faculty working with issues of coffee production, and from faculty teaching versions of “Walking the City,” a performance and story-based course for the first year students. Dr. Kochhar-Lindgren will arrange for project design sessions; help implement training with the GPS units; work with appropriate faculty to implement the projects; and keep records of the results, with the hope of co-writing (with students-faculty-staff) an article on the experience. There will also need to be someone to train students in the use of GPS technologies, either from Information Systems, the Media Center, Academic Services, or the faculty.
- E. **What departments will be involved in the installation and support of this project?** CUSP will serve as the “point of entry” for the projects, but all the academic programs, as well as student life, will be encouraged to participate. We would appreciate support from Student Life, the Media Center, the Library, Educational Technologies, The Teaching and Learning Center, IAS, and CSS.

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ITEM (complete description of item, type of product, quantity) *	Unit Cost	Full Cost
GPSMAP 60 ( <a href="http://www8.garmin.com/outdoor/geocaching/units.html">www8.garmin.com/outdoor/geocaching/units.html</a> ) 20 Units	\$249.99	\$4998.00
<b>TOTAL</b>		<b>\$4998.00</b>

\* This page is a crucial portion of your funding request. Items have to be described in detail, the number of people who this event will serve, quantity and cost of each item, etc. Pricing must be supported by additional documentation from the organization providing the items. Please be specific when listing costs, otherwise your request might not be granted.

**The following signatures are required before your application can be considered complete:**

\_\_\_\_\_  
**Anthony Guerrero**, (or designee)  
*Director, Facility Services*

\_\_\_\_\_  
 Date

Comments:

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**Cynthia Fugate** (or designee)  
*Director, Academic Services*

Date

Comments:

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