

JOINT REQUEST TO DEVELOP a DIGITAL MAPPING TECHNOLOGY PROGRAM

DIVISION OF INSTRUCTIONAL INNOVATION AND ASSESSMENT (DIIA)

AND

STUDY ABROAD OFFICE

VISION PLAN • 2009–2010

SUMMARY OF REQUEST

DIIA and the UT Study Abroad Office request \$48,000 to explore the classroom application of new computer aided interactive mapping technologies. These technologies have the potential to improve student learning by providing new ways for students to visualize information, represent knowledge, and share ideas. Funds will be used to prototype a three-phase support model. Phase One is to develop and conduct interactive mapping technology workshops designed for students before they go abroad, and to assist faculty in designing visual and location based project assignments for students. Phase Two is to provide online consultation to students working on their projects while abroad. Phase Three is to convene work sessions to guide students in organizing, post processing and final visualization and display of recorded experiences upon their return for sharing, presenting and delivering to the broader UT community.

Interactive mapping technologies are becoming increasingly ubiquitous on the Web and in other new media environments (i.e. Google Maps and Google Earth). Many of these technologies are found in today's cell phones, smartphones and low cost GPS devices.

IMPACT ON TEACHING AND LEARNING

- Allow students to aggregate geographic data related to areas they visit, information from free sources on the Web, and self-generated content.
- Situate students' knowledge building through interactive representations of place, thus expanding teaching and learning in a new dimension.
- Enhance students' digital literacy skills and technology proficiencies that can be applied in a variety of learning and professional contexts.
- By integrating these tools with teaching, instructors are better equipped to provide meaningful, engaging, and collaborative experiences that enhance learning outcomes.
- Broaden UT's capacity to support innovative instructional technologies and extend its reach and impact in the wider higher education community.

SUMMARY OF PROPOSED WORK

- Develop and conduct 8-10 hours of instruction to students on emerging digital mapping technologies covering the use of cameras, GPS units, mapping software, and utilities
- Lead on campus field trips for students to collect and integrate image and location data
- Assist faculty in designing visual and location based project assignments for students
- Provide online consultation to students working on their projects while abroad

- Convene work sessions to guide students in organizing, post processing and final visualization and display of recorded experiences upon their return.

DIIA AND THE STUDY ABROAD PROGRAM CONTRIBUTION = \$48,000

DIIA subject expert and instructional designer (.5 FTEs) \$35,000

SAB administrator (.12 FTE) \$12,000

TOTAL ONE TIME ITAC REQUEST FOR SUPPORT = \$48,000

GRA .5 FTE \$26,000

GPS hardware and software \$19,000

Reference Materials \$ 500

Camera equipment \$ 2,500