Instructionally Related Activities Funds Request Fall 2019

▾ Submitter

Submitter Name

Kiersten Patsch

Submitter Email

kiersten.patsch@csuci.edu

▾ 1. Basic Details

Activity Title

Applying geospatial skills in the field: Santa Rosa Island

Activity/Event Date

Fall 2019 and Spring 2020

Date Funding Needed By

09/01/2019

Previously Funded?

○ No
● Yes

▾ Previously Funded Proposal

Semester/Year

Fall 2018

Proposal # (if known)

1046

Report submitted for previously Funded Activity?

○ No
● Yes

Please upload a copy of the report

ira-report-GISRosa_Fall2018.pdf

Additional Report #1

ira-report-form-KPatsch2018S.docx

Additional Report #2

Additional Report #3

Additional Proposers

Academic Program(s)/Center Name(s)

ESRM

Estimated total Course Fee revenue

n/a

Amount Requested from IRA

9,086

Estimated Number of Students Participating

56

▼ 2. Brief Activity Description

Describe the activity and its relationships to the educational objectives of the students' program or major

Brief Activity Description

This activity will serve as a field trip to learn orienteering and basic real-world field methods important to Geographic Information Systems. Students from ESRM 328: Introduction to GIS and/or ESRM 428 Intermediate GIS will spend a long weekend (3 days and 2 nights) on Santa Rosa Island during the Fall and Spring semesters of the 2019-2020 academic year. Students will learn geospatial field methods associated in several on-going projects including long-term photo-point vegetation monitoring, mapping rare tree species populations (i.e. Ironwood, Torrey Pine, Bishop Pine, and Island Oak), and shoreline monitoring (i.e. beach profiles, sea cliff height, high-tide lines). Students will also learn basic GPS navigational and waypoint collection skills while building a sense of comradery among fellow ESRM majors and those outside of the major. ESRM 328 serves as an introduction to the fundamental concepts and techniques of geographic information systems (GIS), including the collection, manipulation, analysis, interpretation, display, and communication of spatial information for environmental decision making. This trip will provide the opportunity for students to collect real-world data, and take that data through the manipulation, analysis, interpretation, display, and ultimately communication stages once we are back in the classroom. Students will be given the opportunity to understand the important role geographic information systems play in environmental management and conservation in a National Park, and will also gain firsthand experience on the relationship between GIS and other spatial technologies (e.g. GPS systems). This project will expand the data sets collected in the spring of 2016, fall of 2016, spring 2017, and fall 2018 and provide interesting data for observing changes to the island each semester. Ultimately, with GIS students gathering data each semester, we will acquire an impressive set of data that are important to the National Park Service, CSUCI scholarship, and students as they begin thinking about capstone projects.

▼ 3. Learning Outcomes and Relation of IRA to Course Offerings

All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses.

1. Please list all classes that directly relate to the proposed activity.
2. For each class listed, describe in detail how exactly the IRA activity will be integrated with the class's activities, how often/ on what expected date(s), and to what extent

Learning Outcomes and Relation of IRA to Course Offerings

The Learning Outcomes for ESRM 328 are as follows:
1. Understand the elements of cartography and how spatial information can be communicated through a variety of media;
2. Manipulate, analyze, interpret, display, and communicate spatial information in a manner understandable to a target audience;
3. Utilize ESRI ArcGIS software to perform common tasks and analyses; and
4. Recognize the role of GIS in environmental management and conservation and the relationship between GIS and other spatial technologies (e.g. GPS, remote sensing).

This trip will contribute to learning outcomes 1-4. It will allow students to take the individual concepts they've learned from week to week in class and apply them to a real-world situation starting with the collection of data and resulting in effectively communicating that data through well designed and executed maps.

▼ 4. Activity Assessment

Describe the assessment process and measures that the program will use to determine if it has attained its educational goals.

Please note that a report will be due at the end of the semester.

Description of Assessment Process

ESRM 328 students will be assigned a project to be completed by the end of the spring semester using data collected on this trip. Each student will use the data collected on Santa Rosa Island to work through the steps of manipulation, analysis, interpretation, display, and communication (which they've learned throughout the semester). Students will be responsible for developing and contributing to our class Santa Rosa Island geodatabase and preparing a well-executed map that conveys their analysis of information collected on the island.

▾ 5. Activity Budget

Please enclose a complete detailed budget of the entire activity. Indicate specific items that you are requesting IRA to fund.

You should use either the Regular Activity budget (for events on campus) or -- if your event involves any travel-- you MUST use the IRA Travel Budget Form.

You can download both of the IRA Excel Budget sheets at http://www.csuci.edu/ira/application.htm.

Activity Budget

ira-travel-budget-form-GIS_2019-2020.xlsx

▾ 6. International Trips

If your event is an international trip submitted through the Center for International Affairs, you must include copies of:

1. Complete Center for International Affairs/ UNIV 392 proposal
2. The program budget as submitted to the Center for International Affairs (to ensure congruency between the two budgets)
3. as well as a copy of the course syllabus

Center for International Affairs Budget

Copy of Center for International Affairs Proposal

Course Syllabus

Certification

☐ I certify that students attending this trip are not previous or repeat attendees of a prior International UNIV 392 Trip

▾ 7. Sources of Activity Support

Please list the other sources of funding (including course fees), and exact expected amounts of additional support for the activity. Please indicate if there are no other sources of funding

Other Sources of Funding

none

8. Promoting Participation

What is your intended audience and how do you intend to market this to your students?

Students enrolled in ESRM 328/ESRM 428 will take part in this field trip to have hands-on experience with GIS technology.

If this is an event that is off campus, how do you plan to bring back the benefit of this event to campus?

9. Approval and Acknowledgement

Program Chair/Director

Anderson, Sean S

Dean

Wyels, Cynthia (Arts & Sciences)

Conditions and Considerations

☐ **Artist/Performer/Speaker Fees & Honoraria**: On the Activity Budget, please indicate whether the vendor's price was set by you/CI Representative, or is a fee that was set by the vendor.

☐ **Large Event**: For a large event, consultation with the campus Event Coordinator's office at (805)437-8548 is required.

☑ **Field Trip**: Sponsor must comply with all policies found at: http://www.csuci.edu/rm/programs/academic-field-trip-guidelines-and-forms.htm. If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

☐ **Involves Human Subject Data Collection for Public Dissemination -Requires IRB Approval** : If Project Sponsor proposes to conduct research with human participants, the proposal may be subject to Institutional Review Board for the Protection of Human Subjects (IRB) review. All research that involves any type of interaction with human subjects - from simple surveys to complex biomedical procedures - must be reviewed and approved by the IRB prior to starting the research. Data for "Public Dissemination" indicates interviews/surveys that result in a journal/poster session/newsletter, etc.

☐ **IT Requirements**: If your activity has IT requirements, coordination with and approval from IT Administration is required.

☐ **International Travel**: Requires International Travel application be submitted to Center for International Affairs. Include copy of CIA budget and course syllabus in your IRA application. Must utilize the University's Foreign Travel Insurance Program (FTIP) and follow all International Travel Guidelines listed at: http://www.csuci.edu/rm/insurance/foreign-travel.htm

☐ **Risk Management Consultation**: Events that involve or engage students directly with a performer or artist (i.e. in a workshop or other than as a passive audience member) will require consultation with Risk Management. Requires proof of correspondence with Risk Management.

☐ **Space/Facilities Services Requirements**: Consultation and coordination with Facilities Services is required.

Acknowledgement

☑ I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. I acknowledge that the activity sponsor will be responsible for managing purchases, travel arrangements, and all transactions related to approved activities. Please check off boxes as appropriate.

Chair Review

Recommendation

- ● I recommend approval of the IRA Funds Request described on this page
- ○ I DO NOT recommend approval of the IRA Funds Request described on this page

Comments

Sean Anderson | Mar 21 2019

Dean Review

Recommendation

- ● I recommend approval of the IRA Funds Request described on this page
- ○ I DO NOT recommend approval of the IRA Funds Request described on this page

Comments

Cynthia Wyels | Apr 4 2019