



Instructionally Related Activities Funds Request Spring 2016

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IRA Funds Request for Introduction to GIS on Santa Rosa Island

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Instructionally Related Activities Funds Request Summary

Project Sponsor	Kiki Patsch
Activity Title	Introduction to GIS on Santa Rosa Island
Activity/Event Date	April 1-3, 2016
Date Funding Needed By	Feb. 2016
Previously Funded?	No
Semester/Year	—
Proposal #	—
Report submitted for previously Funded Activity?	—
Report submitted for previously Funded Activity	—
Additional Report #1	—
Additional Report #2	—
Additional Report #3	—
Additional Proposers	—
Academic Program(s) / Center Name(s)	ESRM
Estimated total Course Fee revenue	\$550
Amount Requested from IRA	\$3425
Estimated Number of Students Participating	24
Conditions and Considerations	Field Trip
Brief Activity Description	This activity will serve as a field trip to learn real-world field methods important to Geographic Information Systems (GIS). Students from ESRM 328: Introduction to GIS will spend a long weekend (3 days and 2 nights) on Santa Rosa Island during the spring semester of 2016. Students will map rare tree species populations (i.e. Ironwood, Torrey Pine, Bishop Pine, and Island Oak) on the island in addition to collecting

	data along beaches at Skunk Point (i.e. beach profiles, sea cliff height, high-tide lines) using field mapping techniques and learn basic navigational skills while building a sense of comradery among fellow ESRM majors. 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). As this class moves forward in the future with data sets collected for this class twice a year, we have the opportunity to compile an impressive set of data that are important to the National Park Service, CSUCI scholarship, and students as they begin thinking about capstone projects.
Learning Outcomes and Relation to IRA to Course Offerings	<p>The Learning outcomes for ESRM 328 are as follows:</p> <ol style="list-style-type: none"> 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). <p>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.</p>
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.
Activity Budget	travelbudget042814_Patsch.xlsx
CIA Budget	—
CIA Proposal	—
Course Syllabus	—
CIA Certification	—
Other Sources of Funding	There is a course fee of \$25/student for this course with will provide additional support for the activity (\$550).
Target Audience/Student Marketing	Students in ESRM 328 Introduction to GIS will be required to attend this field trip to Santa Rosa Island.
Bring Benefit to Campus	—
Sustainability	Students will submit their maps and reports digitally to promote sustainability at CSUCI.
Program Chair/Director	donald.rodriquez
Dean	karen.carey
Acknowledgement	I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. Please check off boxes as appropriate.

Program Chair/Director Approval

Approval	I approve the IRA Funds Request described on this page
Name	Donald Rodriguez
Date/Time	10/1/2015 4:46:30 AM
Validation	myCI-signin-J8-4327

Dean Approval

Approval	I approve the IRA Funds Request described on this page
Name	Karen Carey

Date/Time	10/1/2015 8:18:53 AM
Validation	myCI-signin-MK-5901

IRA Committee Decision

Decision	—
Comments	—

Actions

- [IRA Committee Decision](#)
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