

## Instructionally Related Activities Funds Request Fall 2016

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## IRA Funds Request for Introduction to Geospatial Research on Santa Rosa Islands

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## Instructionally Related Activities Funds Request Summary

<b>Project Sponsor</b>	Kiki Patsch
<b>Activity Title</b>	Introduction to Geospatial Research on Santa Rosa Islands
<b>Activity/Event Date</b>	Fall 2016: Sept. 30, 2016–October 2, 2016 and Spring 2016: March 10, 2017 –March 12, 2017
<b>Date Funding Needed By</b>	September 1, 2016
<b>Previously Funded?</b>	Yes
<b>Semester/Year</b>	Spring 2016
<b>Proposal #</b>	IRA#750
<b>Report submitted for previously Funded Activity?</b>	No
<b>Report submitted for previously Funded Activity</b>	—
<b>Additional Report #1</b>	—
<b>Additional Report #2</b>	—
<b>Additional Report #3</b>	—
<b>Additional Proposers</b>	—
<b>Academic Program(s) / Center Name(s)</b>	ESRM
<b>Estimated total Course Fee revenue</b>	\$1250
<b>Amount Requested from IRA</b>	\$7336
<b>Estimated Number of Students Participating</b>	52
<b>Conditions and Considerations</b>	Field Trip
<b>Brief Activity Description</b>	<p>This activity will serve as a field trip to learn basic real-world field methods important to Geographic Information Systems. Students from ESRM328: Introduction to GIS will spend a long weekend (3 days and 2 nights) on Santa Rosa Island during the Fall and Spring semesters of the 2016-2017 academic year. Students will learn geospatial field methods associated in several long-term projects including long-term photo-point 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. ESRM328 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 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 and future careers.</p>
<b>Learning Outcomes and Relation to IRA to Course Offerings</b>	<p>The Learning outcomes for ESRM328 are as follows:</p> <ol style="list-style-type: none"> <li>1. Understand the elements of cartography and how spatial information can be communicated through a variety of media;</li> <li>2. Manipulate, analyze, interpret, display, and communicate spatial information in a manner understandable to a target audience;</li> <li>3. Utilize ESRI ArcGIS software to perform common tasks and analyses; and</li> <li>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).</li> </ol> <p>This trip will contribute to learning outcomes 2-4. 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>
<b>Description of Assessment Process</b>	ESRM328 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.
<b>Activity Budget</b>	<a href="#">iracontent_ESRM328_20162017Academic_Year.doc</a>
<b>CIA Budget</b>	—
<b>CIA Proposal</b>	—
<b>Course Syllabus</b>	—

<b>CIA Certification</b>	—
<b>Other Sources of Funding</b>	This class has a \$25 course fee that can be used to offset the cost of this trip. 50*\$25= \$1250
<b>Target Audience/Student Marketing</b>	Students enrolled in ESRM328 will take part in this activity.
<b>Bring Benefit to Campus</b>	Data collected as part of this field trip will be compiled for our CI GIS database.
<b>Sustainability</b>	Projects will be submitted digitally, thus promoting sustainability at CI. In addition, students will become aware of land use management issues within a Natural Park, and how GIS can help with monitoring and managing the Channel Islands.
<b>Program Chair/Director</b>	donald.rodriguez
<b>Dean</b>	karen.carey
<b>Acknowledgement</b>	I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. Please check off boxes as appropriate.

**Program Chair/Director Review**

<b>Recommendation</b>	I recommend approval of the IRA Funds Request described on this page
<b>Name</b>	Donald Rodriguez
<b>Date/Time</b>	2/19/2016 5:47:10 PM
<b>Validation</b>	myCI-signin-CL-6493
<b>Comments</b>	—

**Dean Review**

<b>Recommendation</b>	—
<b>Name</b>	—
<b>Date/Time</b>	—
<b>Validation</b>	—
<b>Comments</b>	—

**IRA Committee Decision**

<b>Decision</b>	—
<b>Comments</b>	—

**Current Tasks**

Task	Time Assigned	Assigned To
Edit Request	2/19/2016 5:47:10 PM	<a href="#">Kiki Patsch</a>
Review from karen.carey, Dean	2/19/2016 5:47:10 PM	<a href="#">Karen Carey</a>

**Completed Tasks**

Task	Time Assigned	Time Completed	Completed By
Review from donald.rodriguez, Program Chair/Director	2/19/2016 3:27:37 PM	2/19/2016 5:47:10 PM	<a href="#">Donald Rodriguez</a>
Fill out Request	2/19/2016 3:17:25 PM	2/19/2016 3:27:37 PM	<a href="#">Kiki Patsch</a>

**Actions**

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