

## Instructionally Related Activities Funds Request Fall 2017

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### IRA Funds Request for Field Methods for Geographic Information Systems (GIS) On Santa Rosa Island

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#### Instructionally Related Activities Funds Request Summary

<b>Project Sponsor</b>	Kiki Patsch
<b>Activity Title</b>	Field Methods for Geographic Information Systems (GIS) On Santa Rosa Island
<b>Activity/Event Date</b>	Fall 2017 and Spring 2018
<b>Date Funding Needed By</b>	September 1, 2017
<b>Previously Funded?</b>	Yes
<b>Semester/Year</b>	Spring 2016; Fall 2015; Fall 2016
<b>Proposal #</b>	#750
<b>Report submitted for previously Funded Activity?</b>	Yes
<b>Report submitted for previously Funded Activity</b>	<a href="#">SRIRSphtoplotposter.pdf</a>
<b>Additional Report #1</b>	<a href="#">irareportformKPatsch2016S.docx</a>
<b>Additional Report #2</b>	<a href="#">IRA750_Photos.docx</a>
<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>	\$1550
<b>Amount Requested from IRA</b>	\$8,626 (total is \$8,626+1550)
<b>Estimated Number of Students Participating</b>	62
<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 three sections of ESRM 328: Introduction to GIS and/or ESRM 428: Intermediate GIS (depending on what I teach in the Fall and Spring next year) 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 geo-spatial field methods associated with several on-going 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 as well as students outside of their major. ESRM 328 and 428 serve 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 and fall 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.</p>
<b>Learning Outcomes and Relation to IRA to Course Offerings</b>	<p>ESRM 328 and/or ESRM 428 (as well as capstone projects in ESRM computer Science, and Anthropology as well as others that may be in the class and decide to incorporate either a geospatial element to projects or decide to study Santa Rosa Island).</p> <p>The Learning outcomes for ESRM 328 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 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>
<b>Description of Assessment Process</b>	ESRM 328/428 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="#">iratravelbudgetform2017_2018_ESRM328_428_updated.xlsx</a>
<b>CIA Budget</b>	—
<b>CIA Proposal</b>	—
<b>Course Syllabus</b>	—
<b>CIA Certification</b>	I certify that students attending this trip are not previous or repeat attendees of a prior International UNIV 392 Trip
<b>Other Sources of Funding</b>	This class has a \$25 course fee that can be used to offset the cost of this trip. 62*\$25= \$1550
<b>Target Audience/Student Marketing</b>	Students currently enrolled in my sections of ESRM 328 and/or ESRM 428 will go on this field trip. Currently, my courses for next year are up in the air, and I am unsure whether I will be teaching 328 or 428. Regardless, this trip is appropriate for both levels of my GIS course.
<b>Bring Benefit to Campus</b>	This trip has inspired numerous capstone projects and research on Santa Rosa Island. In the past, we've submitted posters to Sage and the California Island Symposium based on this project. In addition, we are contributing to a geodatabase that is accessible to all students on campus with vegetation monitoring along 100+ photo-points on Santa Rosa Island. The comradery among students will benefit everyone.
<b>Sustainability</b>	Projects will be submitted digitally, this promoting sustainability at CSUCI
<b>Program Chair/Director</b>	donald.d.rodriguez

Dean	james.meriwether
Acknowledgement	I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. Please check off boxes as appropriate.

**Program Chair/Director Review**

Recommendation	I recommend approval of the IRA Funds Request described on this page
Name	Donald Rodriguez
Date/Time	2/25/2017 9:55:37 PM
Validation	myCI-signin-P7-6508
Comments	—

**Dean Review**

Recommendation	I recommend approval of the IRA Funds Request described on this page
Name	James Meriwether
Date/Time	3/5/2017 8:18:25 PM
Validation	myCI-signin-MJ-9615
Comments	—

**IRA Committee Decision**

Decision	—
Comments	—

**Current Tasks**

Task	Time Assigned	Assigned To
IRA Committee Decision	3/5/2017 8:18:25 PM	<a href="#">David Daniels</a>

**Completed Tasks**

Task	Time Assigned	Time Completed	Completed By
Edit Request	2/25/2017 9:55:38 PM	3/3/2017 2:29:39 PM	<a href="#">Kiki Patsch</a>
Review from james.meriwether, Dean	2/25/2017 9:55:37 PM	3/5/2017 8:18:25 PM	<a href="#">James Meriwether</a>
Review from donald.rodriguez, Program Chair/Director	2/25/2017 9:18:22 PM	2/25/2017 9:55:37 PM	<a href="#">Donald Rodriguez</a>
Fill out Request	2/25/2017 8:53:59 PM	2/25/2017 9:18:22 PM	<a href="#">Kiki Patsch</a>

**Actions**

- [IRA Committee Decision](#)
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