Channel Islands
CALIFORNIA STATE UNIVERSITY

Instructionally Related Activities Funds Request Fall 2015

IRA Funds Request for 2015 ACM Intercollegiate Programming Contest

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Instructionally Related Activities Funds Request Summary

Project Sponsor	Brian Thoms
Activity Title	2015 ACM Intercollegiate Programming Contest
Activity/Event Date	11/07/2015
Date Funding Needed By	10/01/2015
Previously Funded?	Yes
Semester/Year	Fall/2014
Proposal #	0622
Report submitted for previously Funded Activity?	No
Report submitted for previously Funded Activity	irareportform0622.docx
Additional Report #1	—
Additional Report #2	—
Additional Report #3	—
Additional Proposers	—
Academic Program(s) / Center Name(s)	Computer Science
Estimated total Course Fee revenue	n/a
Amount Requested from IRA	$2,520.00
Estimated Number of Students Participating	15
Conditions and Considerations	Field Trip
Brief Activity Description	With the support of IRA funds, the Computer Science Department hopes to take a team of student software programmers to the 2015 ACM International Collegiate Programming Contest (ICPC), which will be held at Riverside Community College in November. The ACM ICPC is a multitier, team-based, programming competition with participation from almost 2,534 universities from over 100 countries. The contest fosters creativity, teamwork, and innovation in building software programs and challenges student's abilities to perform within a competitive environment. CSUCI belongs to the Southern California Region, where students compete against peers from local institutions including, but not limited to UCLA, UCSD, UCSB, USC, Cal Tech, Harvey Mudd and CSULB. Contest Rules: Teams are presented with nine problem descriptions, along with sample input and output for each problem and had five hours to solve as many problems. Solving a problem means that the program, when compiled by the judges, and run against the judges' confidential data, produces the expected output. Teams are free to solve the problem with any algorithm that produced the results specified in the time allotted. In 2015, CSUCI CS students hope to improve upon their success in 2014 where each participating team managed to solve at least one challenging computer programming problem with one team finishing in the top 20! It was a truly beneficial experience for students and many students already looking forward to the 2015 competition.
Learning Outcomes and Relation to IRA to Course Offerings	Programming is a fundamental skill that is taught in numerous Computer Science courses including: COMP105 Introduction to Computer Science and Programming, COMP150 Introduction to Object-Oriented Programming, COMP151 Algorithms and Data Structures, COMP232 Programming Languages, COMP350 Software Engineering, COMP351 Distributed Computing, COMP450 Advanced Object-Oriented Programming.

	Additionally, many other CS courses incorporate programming components on some level. The ACM contest is a competition that pits teams of students sharing a single computer against one another. Students race against the clock to solve six highly challenging software problems in a five-hour window. In the weeks leading up to the competition, teams practice and prepare with the support of their contest coach, Dr. Thoms, who will hold contest study sessions and distribute practice problem sets and educational material. These activities and associated educational material help students strengthen, not only students' computer programming skills, but also students' interpersonal skills working as members of small software teams. Teamwork is an extremely important aspect of the computer programming profession, and the industry expects that students entering the workforce are capable of interacting and collaborating on software projects.
Description of Assessment Process	While the final placement of our teams at the competition is not a good metric for measuring the success of the activity, CSUCI should be proud of their achievements in past events and use these results as a baseline for future accomplishments. In the 2014 contest each participating team managed to solve at least one challenging computer programming problem, which is a result CI can be proud of. Additionally, student feedback will play an important role in helping to identify various successes and failures of the activity.
Activity Budget	travelbudget030115.xlsx
CIA Budget	—
CIA Proposal	—
Course Syllabus	—
CIA Certification	—
Other Sources of Funding	There are no other sources of funding. If IRA funding is not available, participation in this event by CSUCI will be in jeopardy.
Target Audience/Student Marketing	Our intended audience will be computer science and information technology students, but the event is open to all students with an aptitude for computer programming. In the past, the event has been marketed by: - Computer Science Faculty - Computer Science Club - Women in Computing Club - Computer Science Listserv
Bring Benefit to Campus	The results of the competition were well publicized by student clubs and faculty. Additionally, the results were documented online by the ACM Competition website, http://www.socalcontest.org/current/index.shtml, and through the CSUCI Computer Science Blog, http://compsci.csuci.edu/news-and-events/acm-programming-results.htm.
Sustainability	The majority of education materials purchases are made available to future event participants.
Program Chair/Director	michael.soltys
Academic Affairs AVP	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	Michael Soltys
Date/Time	3/2/2015 8:52:45 AM
Validation	myCI-signin-XV-5420

Academic Affairs AVP Approval

Approval	I approve the IRA Funds Request described on this page
Name	Karen Carey
Date/Time	3/2/2015 8:57:06 AM
Validation	myCI-signin-LR-8823

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