

Instructionally Related Activities Funds Request Spring 2018

▼ Submitter

Submitter Name

Alona Kryshchenko

Submitter Email

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▼ 1. Basic Details

Activity Title

Mathematics Undergraduate Senior Seminar

Activity/Event Date

Mondays, 4:30-5:20pm, during Math 499 (unless there is change in course schedule) for Spring 2018 semesters

Date Funding Needed By

January 2018

Previously Funded?

- No
 Yes

▼ Previously Funded Proposal

Semester/Year

Fall 2014, Spring 2015, AY 2015-2016

Proposal # (if known)

#180, #691, #719

Report submitted for previously Funded Activity?

- No
 Yes

Please upload a copy of the report

[IRA Report Spring 2015.pdf](#)

Additional Report #1

Additional Report #2

Additional Report #3

Additional Proposers

Dr. Ivona Grzegorzcyk

Academic Program(s)/Center Name(s)

Mathematics program

Estimated total Course Fee revenue

\$1,000

Amount Requested from IRA

\$3,250

Estimated Number of Students Participating

600, counting repeated participation; average attendance ranges 20-30 with highs near 100.

2. Brief Activity Description

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

Brief Activity Description

"Mathematics Undergraduate Senior Seminar" consists of weekly series of invited lectures on contemporary mathematics and applications of mathematics to other areas of study and life. Presenters include CI students and faculty as well as a large number of invited speakers per year. We invite speakers who have chosen mathematics as an educational discipline and have made practical use of that education. Speakers have shared their work with mathematics education, mathematics research, and interdisciplinary applications of mathematics. In past semesters, presentation topics have included topics as diverse as the Higgs Boson at CERN, a discussion of the origins and significance of projective geometry and great exercises to do in middle school math classes, Dean Gary Sayed from CSUDH spoke to our students about Pathways to Careers in the Medical and Health Professions etc. Seminars are publicized and open to the entire campus and to the local community. Typically between 20 and 30 students participate in each seminar (with highs near 100), which translates to roughly 300 students each semester; faculty and community participants typically attend as well. We request funds to be able to cover costs (lodging, travel, etc.) and pay honoraria to our invited speakers during the Spring 2018.

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

Students enrolled in MATH 499 are the primary beneficiaries of these funds, as they alone are required to attend the weekly seminars. However, all CI students are invited to attend. Students with an interest in mathematics and in the applications of mathematics to other fields (e.g. to other sciences, including social sciences) attend as interest dictates. Many instructors provide extra credit for students that attend. In addition, students in MATH 492, MATH 497, UNIV 498, and LS 492 attend and even give presentations at some seminars. In particular, we use the seminar for capstone presentations, which typically occur in the last 1 to 3 weeks of the semester.

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

The Mathematics Undergraduate Senior seminar uses attendance at seminars and student evaluations for Math 499, Math 492, Math 497, and UNIV 498 to determine whether the program has attained its educational goals. We also use the feedback obtained from distinguished presenters to assess whether we have been good hosts.

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

[iraregularbudget_MathSeminar_S18.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

Each semester some CI faculty donate their time and effort by giving a seminar presentation (However, it is neither possible nor desirable for only CI faculty to present at the Mathematics Seminar.) CI faculty also conduct the behind-the-scenes work of making the arrangements necessary to provide for a positive experience for our distinguished visitors. CI faculty often buy speakers' dinners out of their own pockets. Students also volunteer to provide refreshments. Other institutions and associations (e.g. UCSB, CLU, the Southern California-Nevada Section of the Mathematical Association of America) engage in cost-sharing (particularly travel costs) when we share speakers who make one trip to Southern California to speak at multiple events.

▼ 8. Promoting Participation

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

Students registered in Math 499 are required to attend. We advertise the talks throughout campus to all CI students and

staff, however our target audience is students with an interest in mathematics and in the applications of mathematics to other fields. We have organized the seminar so that the students registered in Math 499 are entrusted with the responsibilities of hosting a speaker. The students are organized into eight groups, each with its own responsibilities. For example: Contact & Confirm Team, Thank You Letter Team, Set up Team, Parking Permit Team, and Advertisement Team. The advertisement group is in charge of making flyers, posting them in the math department, library, student union, etc., sending an email out to everyone in the computer science, mathematics and applied physics programs, and sending a flyer to David Daniels to be posted in the IRA Facebook page. The management group and I make sure this job is done days before the talk.

We also make flyers to advertise to other campuses when appropriate. For example, during the Transfer Summit in late February 2015, flyers were handed out to neighboring city colleges so that students, who were considering transfer to CI, could learn about the "Si Se Puede" event we organized in April 2015.

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

▼ 9. Sustainability

If appropriate, indicate how the content or delivery of the project promotes sustainability at CI.

Sustainability

Many times, in teaching the more traditional mathematics courses, we as instructors find it difficult to set time in our teaching for the applications of the particular course while still covering all the core material that students need moving forward. I feel that this is where some students lose interest in mathematics – they need to see the application, the connection to the real world. The Mathematics Undergraduate Senior Seminar offers that. Students are able to see what people are doing with mathematics, as researchers, instructors, or professionals in industry. Our goal is for students to become interested in research so that they may attempt it themselves. Moreover, the seminar is an excellent example of a CI course that embodies the Integrative Studies Pillar.

▼ 10. Approval and Acknowledgement

Program Chair/Director

Grzegorzcyk, Ivona

Dean

Adler, Mary

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. 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

I strongly support the funding of the mathematics seminars. These events broaden students perspectives in STEM disciplines, expose them to current ideas in sciences and let them meet working professionals. Seminars present interesting contemporary topics and are open to the campus community and public (and some seminars have around 100 people in the audience!). They bring prestige and recognition to CI.

I strongly recommend this proposal for funding the speakers

 Ivona Grzegorzcyk _____ Oct 3 2017 _____

▼ 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

The mathematics seminars have potential to make a strong and positive contribution to math and STEM students' understanding of real world applications for their studies. The series is well organized and includes important student involvement in the process as well as in attending the seminars themselves.

 Marion Adler _____ Oct 3 2017 _____