

# Instructionally Related Activities Funds Request Spring 2019

## ▼ Submitter

### Submitter Name

Geoffrey Dougherty

### Submitter Email

Geoff.Dougherty@csuci.edu

## ▼ 1. Basic Details

### Activity Title

Let's Get Astrophysical

### Activity/Event Date

May 2019

### Date Funding Needed By

February 1, 2019

### Previously Funded?

- No  
 Yes

### Additional Proposers

Dr. Clint Harper, Applied Physics  
Dr. Ivona Grzegorzczk  
Dr. Fiorella Terenzi (adjunct teacher of ASTR 107 in spring 2019)

### Academic Program(s)/Center Name(s)

Mathematics and Applied Physics

### Estimated total Course Fee revenue

n/a

### Amount Requested from IRA

3000

## Estimated Number of Students Participating

60

### 2. Brief Activity Description

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

#### Brief Activity Description

We have a visiting faculty member from Florida International University teaching a course for us next semester, ASTR/PHYS 107 "The Stars and Beyond." Dr. Fiorella Terenzi uses a very non-traditional approach to science education, combining astronomy with the performing arts. Dr. Terenzi has gained quite a bit of notice for her unique approach to astrophysics education from notables such as Dr. Neil deGrasse Tyson. One interesting aspect of her course is the conversion of radio telescope signals into music. You can see some video of her production "Let's Get Astrophysical" on youtube:

- [https://www.youtube.com/watch?v=SnuwYcz8\\_NI](https://www.youtube.com/watch?v=SnuwYcz8_NI)
- <https://www.youtube.com/watch?v=KtWk2LwHFIw>
- <https://www.youtube.com/watch?v=m1g8ud0LYJM>

This activity is "Let's Get Astrophysical!", a transformative, high-energy, multimedia musical with an empowering tale. It features students (ASTR 207, students from the performing arts, and others - as a "learning community") as actors, dancers, musicians, artists etc. combined with a powerful light show and stunning high-definition video from NASA/JPL. Through classroom discussion, research, activities and textbook study students will perform on stage a multimedia performance, an uncommon fusion of science and art, astronomy and music, based on stellar themes and references. This presentation will be based on a performance staged by Dr. Fiorella Terenzi and students at Florida international University.

### 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

Through classroom discussion, research, activities and textbook study students are expected to achieve a basic understanding of the topics covered by the Astronomy 107 The Stars and Beyond course.

Students should be able to define the scientific terms used in the course and be able to explain the concepts to a fellow student.

Through the process of putting together a multimedia show to be performed live at the end of the semester, students will be involved in technical research, demonstrations and utilization of their talents and skills linked to the academic content of the 107 course.

The students will

- Articulate, verbally and in written form, their ideas on a scripted show which will demonstrate their understanding of the galaxies
- Demonstrate proficiency in the development of scientific/art projects.
- Produce group projects involving collaborative team assignments.
- Demonstrate methods and processes utilized in refinement of technical issues and artistic ideas.

- Participate in the critical evaluation process of peer projects.
- Develop visual imagery to explain the stars and galaxies.
- Perform live a multimedia show based on an astronomical understanding of the galaxies.

#### ▼ 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**

Students will be assessed on their contributions to the production of the stage show, and this will be used as part of the overall assessment of the Astr 107 course.

#### ▼ 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**

[18-19-ira-regular-budget.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

We will apply for Lottery funds, and will be asking local companies for sponsorship.

## 8. Promoting Participation

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

The ASTR 107 students will plan and stage the end-of-course performance, which will be open to all CI students. It is hoped to stage it in the South Quad.

Flyers will be sent to students and posted throughout the campus.

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

The event will be held on campus.

## 9. Sustainability

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

### Sustainability

## 10. Approval and Acknowledgement

### Program Chair/Director

Grzegorzczuk, 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

A great activity for students of CI.

 Ivona Grzegorzcyk \_\_\_\_\_ Oct 1 2018 \_\_\_\_\_

### ▼ 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

I would like to see consultation with the Performing Arts program in terms of date and venue selection, so that this does not compete with previously scheduled performances such as Arts Under the Stars. Not sure why there is a \$300 fee for social media in the budget. Otherwise, agree with the chair that this has great potential.

 Marion Adler \_\_\_\_\_ Oct 10 2018 \_\_\_\_\_