

Instructionally Related Activities Funds Request Spring 2018

▼ Submitter

Submitter Name

Nitika Parmar

Submitter Email

nitika.parmar@csuci.edu

▼ 1. Basic Details

Activity Title

UNIV392: BIOTECHNOLOGY IN INDIA

Activity/Event Date

December 26, 2018- January 16, 2019

Date Funding Needed By

May 31, 2018

Previously Funded?

- No
 Yes

▼ Previously Funded Proposal

Semester/Year

Fall 2016

Proposal # (if known)

785

Report submitted for previously Funded Activity?

- No
 Yes

Please upload a copy of the report

[Parmar UNIV392 2016 IRA report.pdf](#)

Additional Report #1**Additional Report #2****Additional Report #3****Additional Proposers****Academic Program(s)/Center Name(s)**

UNIV

Estimated total Course Fee revenue

23800

Amount Requested from IRA

37735.20

Estimated Number of Students Participating

14

▼ 2. Brief Activity Description

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

Brief Activity Description

Funds are being requested for student travel to India during the winter break of the 2018-2019 academic year (December 26, 2018- January 16, 2019). This travel will be through a UNIV392 course entitled "Biotechnology in India" which will be offered in Fall, 2018. This course was approved by the Center for International Affairs at CI. The 3-unit course will provide CI students an opportunity to visit India and explore biotechnology advancements there. A maximum of 14 students will be enrolled in this class and the instructor will accompany the students to India for the international experience field trip. Students will be exposed to applications in the areas of biotechnology and environmental ecology from the Indian perspective. Emphasis will be placed on demonstration of research experimentation in the fields of molecular biology, immunology, cell biology, animal husbandry, biomedical research and ecological conservation at top research institutions in six different cities as well as an Ecovillage close to Mumbai. Students will learn about the booming biotechnology research in India on one side and the deep emphasis placed on India's ancient history, cuisine, culture, arts, religion and rich traditions on the other.

The goal of this course is to familiarize students with techniques used in the fields of biotechnology and environmental ecology in India. The course will explore biology in the context of applied research and provide students the opportunity to observe research projects ongoing in India. The course will also offer opportunities to discuss and debate selected bioethical issues pertinent to the fields of biotechnology and the environment.

▼ 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 undertaking this field trip to India will be enrolled in the course UNIV392- Biotechnology in India, in Fall 2018. All learning objectives of this class (understanding the concepts of biotechnology as practiced in India, explaining the theory and practice of a variety of experimental techniques as practiced in India, understanding the role of India as a booming biotechnology hub and understanding the vibrant history and culture of India) are expected to be fulfilled as a result of participation in this international trip.

Class will meet once a week for about three hours to understand multiple perspectives and developmental stages leading up to the modern India with a focus on the current state of biotechnology in India. Content will be delivered via lectures, journal articles, videos, media reports and a culminating visit to India. In addition, multiple (at least three) orientation sessions will be held prior to the trip and will cover all information and requirements pertinent to the trip including accommodations, travel, medical facilities, security, food, cultural expectations, shopping guidance and etiquette.

The IRA activity will be the main component of this international trip driven course. Students will learn about the scientific, cultural, social and economic aspects of India in class throughout the semester but will get to experience it first-hand when they visit India during the break.

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

ASSESSMENT: The following combined assessment will be followed:

- Pre-trip presentations (20 points): Students will research the biotechnology practices in India as well as its culture, traditions and history and will present their findings in the form of an oral presentation in class. Each student is required to make a presentation.
- Quiz (20 points each): Three quizzes will be administered during the semester as well as after the trip has concluded. The post-trip assessment will focus on testing your ability to integrate your knowledge content of India from a variety of perspectives such as science, religion, culture, tradition, art, food and trade.
- Reflective journal (50 points): Students should develop a steadily growing document where they are expected to record their reflections and thoughts on what they are learning about India and how it's changing their belief about preconceived notions and perceptions. Specific focus should be made on differences observed in biotechnology practices conducted in India as compared to those in USA as well as multi-cultural influences shaping Indian scientific practices. You will be required to make entries from several perspectives that you utilized to observe India. Entries into the journal are required for each day spent in India. The journal should be a minimum of 25 pages in length and a maximum of 35 pages (excluding bibliography and figures). Journals are required to be turned in by the end of January, 2019. The journal should have the following entries, in addition to your personal narratives:

Challenges faced in the biotechnology areas in India and comparison to those faced in USA- how is experimentation strategized and performed differently in India? Are the outputs different and what approaches are taken to maximize good returns?

Cultural differences between USA and India and how you increased your awareness about these differences- how did you immerse yourself in the culture and what cross-cultural practices did you specifically follow to become more sensitive to Indian traditions?

Communication challenges- were any challenges faced with regard to linguistics? Did you feel you were able to establish good communication with the Indian diaspora?

Social and economic differences with regard to global perceptions- did you find major differences with regard to the social and economic structure in India as compared to what is seen globally? How does India reconcile with these differences?

- Participation (50 points): Students are required to attend and participate in each event/activity during the time spent in India in order to get full benefit of the international experience. A summary of each event/activity is expected to be recorded in the reflective journal. In USA, students are also required to fully participate in a field trip to Little India (also known as Artesia, CA) which will be held on a weekend and complete a take-home assignment following this trip. Students are also required to attend all in-class sessions at CI as well as all orientation sessions.

Students will be graded for their participation in each research lab that will be visited in India (this involves interacting with the students/researchers by asking them questions)

Breakdown of participation:

Field trip to Little India assignment (10 points)

In class participation: 15 points

India research lab participation: 25 points

- Student behavior and attitude in India (20 points): Students will be evaluated for their attitude as it relates to citizenship, punctuality, helpfulness, team dynamics, responsible behavior, respect and sensitivity toward the host culture and their people, following group leader's instructions, etc.
- Final poster presentation (20 points): After the conclusion of the trip, each student will be making a presentation about the experiences gained during the international experience in the form of a poster. Poster will be presented at an international event in early February, 2019.

GRADING: The student's course grade is computed using the standard scale:

(95–100%) A (90–94.9%) A– (85–89.9%) B+ (80–84.9%) B

(75–79.9%) B– (70–74.9%) C+ (65–69.9%) C (60–64.9%) C–

(55–59.9%) D+ (50–54.9%) D (49.9% or below) F

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

[PARMAR IRA Budget form 2017.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

[PARMAR Fall2018 UNIV392 BUDGET.xlsx](#)

Copy of Center for International Affairs Proposal

[PARMAR India proposal.pdf](#)

Course Syllabus

[PARMAR Fall 2018 UNIV 392 Course Syllabus.pdf](#)

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

Students participating in this course will be charged a course fee in the amount of \$1700 per student. This is critical as prices of airfares and lodging may change when the trip actually happens in December 2018 which is more than a year away. As of now the best estimates have been made based on current pricing. This course fee will provide an adequate buffer to absorb any cost increases next year, specifically the airfares. The total course fee for 14 students would be \$23,800.

▼ 8. Promoting Participation

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

The target audience will be undergraduate students of CI. The course is open to all undergraduate students of all disciplines. Students from non-science disciplines will be encouraged to apply in order to experience both the science and non-science elements of India. Advertisement of the course will be done through flyers and posters posted across campus, through global e-mails sent to all program coordinators who will advertise the same to their program students, , and through information sessions presented at Biology and Chemistry Clubs as well as at the LSAMP meetings. Interested students will be required to complete a brief questionnaire (via Survey Monkey) and provide two letters of recommendation from CI faculty, excluding the instructor for this course. The questionnaire will primarily provide me insights into students' academic preparation, their level of confidence and expectations as well as their motivation for this course. The recommendation letters will provide useful feedback about students' potential and skills. Based on the analyses of these findings, students will be interviewed by me. If, for any reason, more than 14 students are found to be suitable for this course, I will prepare a ranking and then recruit the top 14 candidates.

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

This event is a trip to India through a UNIV392 course. The benefits of the trip will be brought back to campus via student presentations at the Sage conference to be held in May 2019. Students will present posters and talks at this event. Students will also make presentations at the International Week celebrations typically held in April and will also share their experiences at Discover CI events. This will increase the awareness of the fourth pillar of our university's mission- international experiences.

▼ 9. Sustainability

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

Sustainability

Although this is not a course which is directly tied to a sustainability field project, students will be gaining significant experience in the area of sustainability via a trip to an Indian Ecovillage. One of the activities that students will be engaged in is an Educational Retreat at Govardhan Ecovillage (GEV) in India. Govardhan Eco Village is a farm community spread over a scenic landscape of 60 acres north of Mumbai, India. Since its inception in the year 2003, Govardhan Eco Village has made steady progress in Organic farming, Education, Rural development, Alternative energy, Eco friendly constructions and Sustainable living. The purpose behind Govardhan Eco Village is to present a sustainable living model based on community living relaying on the marriage between modern biotechniques and traditional Indian methods. Students in this course will thus get to see sustainable practices in India and will glean valuable information which will be shared with the CI community and could potentially be implemented in a practical sense on our campus. Students will present their findings at the Ecovillage at a variety of events as explained earlier.

▼ 10. Approval and Acknowledgement

Program Chair/Director

Mozingo, Nancy M

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

 Nancy Mozingo _____ Oct 12 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

Thoughtfully designed trip to provide both cultural experience as well as academic and professional exposure.

 Marion Adler _____ Oct 12 2017 _____