

# Building Sustainability Curriculum and Learning at Berkeley

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## Goals

Our overall objective was to boost climate neutrality and sustainability education at UC Berkeley, especially targeting faculty and students for whom sustainability might not have been a focus. We supported 12 faculty from diverse departments in transforming existing courses to include sustainability-related content.

## Program

- Day-long workshop September 23, 2017 in the Academic Innovation Studio to support faculty in modifying their courses to include sustainability themes
- Faculty received \$750 in TGIF funding to change curricula
- Faculty spent 7 months transforming their courses and presented their projects during a colloquium May 4, 2018.

*“So many of my students have been responding to our discussions on sustainability with the phrase “before this course I didn’t really know about climate change,” that I think it’s vital we have initiatives like these in order to increase not only our students’ awareness but also... so that we can begin to take action.”*

## Sustainability Impact

### Workshop

- Twelve participants representing 12 departments participated in the workshop.
- Five departments were within traditional sustainability fields, including environmental science, engineering, and geography, while seven were non-traditional disciplines including social welfare, languages, writing, and literature.
- 75% of post-workshop survey respondents (n=8) felt the workshop prepared them to start integrating sustainability concepts into their courses.
- 75% of respondents felt the workshop helped them articulate the meaning(s) of sustainability

### Transformed courses

- 11 courses from 10 departments were transformed
- Courses were offered in Fall 2017 or Spring 2018, reaching 967 undergraduate and 13 graduate students
- All courses will be offered again in the future either annually, every 2 years, or as needed, reaching additional students

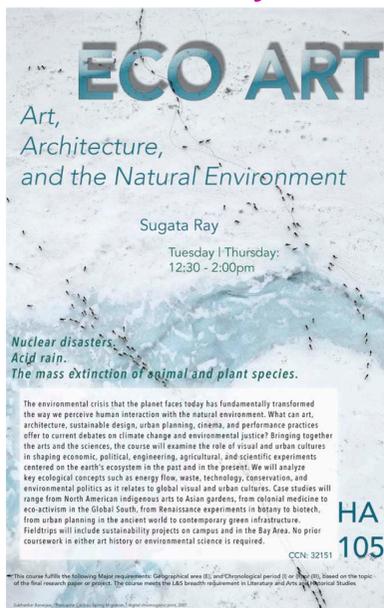
### New classes developed out of this program

- HISTART 105 Eco Art: Art, Architecture, and the Natural Environment (Sugata Ray)
- MSE 24 Freshman Seminar (Matt Sherburne)

### Examples of what funding was used for

- Purchasing Sustainable Minds software
- Proto-typing and outreach funds for students
- Field trip expenses
- Digital camera
- Teaching materials including documentary films, books, other texts, guest speaker honorariums
- To develop displays for CalDay on materials sustainability

## Materials and activities integrating sustainability into courses



Poster advertising HISTART 105 Eco-Art, a new course created through this workshop by Sugata Ray.



Students doing outreach during Communicating Ocean Sciences to Informal Audiences, course modified by Robert Rhew and Catherine Halversen (photo courtesy Rhew and Halversen).



Lecture materials prompting consideration of the lawn in front of Doe library in Sugata Ray's transformed course, Theories and Methods for a Global History of Art.



Keshia Williams used her workshop stipend to fund two former students, Bonnie Lockhart, MSW and Makena Silva, MSW, both Native, to work with her to bring sustainability into her course Introduction to Social Work. Lockhart and Silva centered their presentation on creating an altar in the classroom to hold space for the environment in the classroom, and simultaneously hold space for people in the environment. Photo courtesy Williams.



Theme in Karen Moller's course Intermediate Scandinavian Languages focused on animal welfare and wild life policies in Denmark. Animal welfare materials focused on animal husbandry on ecological farms and the wildlife policy focused on the current issues regarding the recent introduction of wolves in Denmark. Courtesy Karen Moller.

## Transformed Courses

Name	Title	Course title	Dept/ Course number	Undergraduate students	Graduate students
Amy Lee	Instructor (Fall Program for Freshmen)	Climate Change Fictions	Fall Program for Freshman/ FPF English 31AC	20	0
Antje Postema	Lecturer	Topics in Bosnian/Croatian/ Serbian	Slavic Languages & Literatures/ SLAVIC 172	2	1
Catherine Halversen	Lecturer/ instructor	Communicating Ocean Sciences to Informal Audiences	Geography c146, IB c100, EPS c100	30	0
Emily Au	Lecturer	Global Product Development	Jacobs Institute	15	10
Karen Moller	Senior Lecturer	Intermediate Scandinavian Languages (Danish, Norwegian, Swedish)	Scandi-avian/ SCANDIN 100B	6	0
Keshia Williams	Lecturer	Introduction to Social Work Practice	Social Welfare 114	44	2
Kim Freeman	Lecturer	Stories of Sustainability	College Writing R4B	17	0
Kurt Spreyer	Continuing Lecturer	Introduction to Culture and Natural Resource Management	Environmental Science, Policy, and Mgmt/ ESPM 50AC	479	0
Matt Sherburne	Lecturer/ Program Director	Materials Production & Experimental Materials Science and Design	Materials Science and Engineering/ MSE 120 and 130	71	0
Sugata Ray	Assistant Professor	Theories & Methods for a Global History of Art	History of Art/ HISTART 101	58	0
Totals:		11 courses	10 departments	967 undergraduates	13 graduate students



**The Green Initiative Fund**

Organizing team: **Giuliana Perco**, Italian Studies; **Ugo Nwokeji**, African American Studies; **Kira Stoll**, Office of Sustainability and Energy; **Jennifer Mangold**, Fung Fellowship for Wellness and Technology Innovations; **Sarick Matzen**, Environmental Science, Policy & Management

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