



*Amanda Wong planting pilo at Keauhou Bird Conservation Center, Hawai'i Island. Pacific Internship Programs for Exploring Science (PIPES) Research Experiences for Undergraduates (REU) 2017 (Mentors: Dr. Rebecca Ostertag and Dr. Susan Cordell)  
Photo Credit: Giovanni Tolentino*

## APPLY TO GES

UHM Admissions and Records  
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## CONTACT GES

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Email: [ges@soest.hawaii.edu](mailto:ges@soest.hawaii.edu)  
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## WHERE ARE GES ALUMNI?

Graduate School  
Professional School  
Environmental Consulting  
Federal Agencies  
State Agencies  
City and County Agencies  
Research Science Positions  
Private Sector Positions  
K-12 Stem Teachers  
Medical School  
Law School  
Engineering School



*GES graduates at the University of Hawai'i at Mānoa  
107<sup>th</sup> Annual Commencement Exercises*

Bachelor of Science in

**GLOBAL  
ENVIRONMENTAL  
SCIENCE**

## PROGRAM DESCRIPTION

The Global Environmental Science (GES) program is a holistic, rigorous approach of studying the Earth and Earth's physical, chemical, biological, and human systems and investigation of natural, economic, policy, cultural and social systems and their interactions with the Earth system. Sustainability concepts and issues are scientifically and quantitatively approached.



Photo courtesy of Noah Howins. Using SCUBA gear and cameras divers capture images of the study site which are then used to determine coral cover percentage and species abundance.  
Photo credit: Liv Wheeler

## SUBJECTS YOU CAN EXPLORE

- Ocean & Freshwater Sciences
- Indigenous Science
- Environmental Planning
- Environmental Policy
- Environmental Engineering
- Sustainable Tourism
- Environmental Economics
- Energy & Renewables
- Climate Change
- Environmental Law
- Public Policy
- Resource Management
- Sustainability Science

## MENTORING & SUPPORT

GES students receive these services:

### Academic Planning

#### *What courses should I take?*

You receive one-on-one academic advising with a GES faculty member every semester about coursework and how it fits into your overall academic plan and goals.

### Faculty-mentored Thesis Project

#### *How do I accomplish my research project?*

We use a combination of courses and one-on-one faculty mentoring to find a research project that fits your interest. Also, one or more UH faculty will serve as your thesis project mentor to assist you in completing your thesis project.

### Career Planning

#### *What are my career options?*

GES faculty help you explore the possibilities & academic and experiential preparation needed to achieve your post-undergraduate goals.

## PREPARATION FOR YOUR FUTURE

GES students are trained in the following:

### *Independent Research*

Demonstrate ability to carry out independent research with your faculty-mentored thesis project

### *Written Communication*

Ability to effectively communicate ideas in writing

### *Oral Communication*

Skilled delivery of informal and formal oral presentations

### *Computer Programming*

Ability to write programs and visualize data

### *Rigorous Science and Math Foundation*

A solid and broad foundation in biology, chemistry, physics, and mathematics



Photo courtesy of Diana Lopera. Diana investigated the thermal tolerance of one cool-adapted tropical ectotherm, the water anole (*Anolis aquaticus*), in Costa Rica during summer 2018.  
Photo credit: Austin Carriere



Photo courtesy of Cuong Tran. As an education intern at the Old Woman Creek National Estuarine Research Reserve during summer 2018, Cuong took care of the animals in the Visitor Center. Photo credit: Leila Faulstich