Mission:
The College of Tropical Agriculture and Human Resources creates and delivers knowledge that supports and strengthens families, agricultural and food systems, and the natural environment. We educate and serve the people of Hawai‘i and those from around the world with integrity and excellence.

College Website:
http://www.ctahr.hawaii.edu/site/

STEM Education Funding since FY2012:
$10,226,706+$

STEM Degree Programs:
Animal Sciences (BS, MS)
Biological Engineering (BS, MS)
Entomology (MS, PhD)
Food Science & Human Nutrition (BS)
Food Science (MS)
Molecular Biosciences and Biotechnology (BS)
Molecular Biosciences and Bioengineering (MS, PhD)
Natural Resources and Environmental Management (BS, MS, PhD)
Nutrition (PhD)
Nutritional Sciences (MS)
Plant and Environmental Protection Sciences (BS) – no longer offered FA16
Tropical Plant Pathology (MS, PhD)
Tropical Plant and Soil Sciences (BS, MS, PhD)

College Profile:

Total Enrollment (Fall 2016)*
918
% Women
66%
% Native Hawaiian
14%

Degrees Awarded (2015-16)
Bachelor’s
240
Masters
50
Doctorate
11

STEM Profile:

Total STEM Enrollment (Fall 2016)
537
% Women
59%
% Native Hawaiian
13%

STEM Degrees Awarded (2015-16)
Bachelor’s
92
Masters
38
Doctorate
6

+ Calculated based on STEM education grants in ORS reports. Multi-campus grants are listed under PI’s institution
* Enrollment counts excludes students not home-based at this campus
Selected STEM Education Projects and Activities

GENE-IUS Day Program
The GENE-ius Day Program was developed in 2006 at the University of Hawai‘i, at Mānoa to provide science education to Hawai‘i’s children. The GENE-ius Day Program offers school day field trips for elementary students and Saturday science classes for students in grades 1 to 12.

The GENE-ius Day School Field Trip has a series of activities that connect genetics and agriculture to the school curriculum. Being on campus lets students imagine themselves as university scientists and increases interest in science related topics. Each field trip includes a plant cell lab, DNA extraction lab, an interactive lecture on human and plant traits, and an agricultural talk that highlights the relationship between science and the food we eat.

http://www.ctahr.hawaii.edu/geneius-day/index.html

Hawaii AgDiscovery Program
High school students will experience many aspects of agribusiness and college campus life through various field and lab activities. The two-week program is sponsored by APHIS Western Region Departments.

Biotechnology Outreach Program: DNA Today
We depend on plants for our food and much more. Take a look around your room. Almost everything in it is made from plants. Without plants you would not have sheets on your bed or paint on your walls. Your books would have no pages. The t-shirts and blue jeans in your closet would not be there. Even the gum you are chewing would disappear.

This website focuses on how farmers and scientists study and use DNA to get the crops we want. Click on the tabs above to learn more about DNA, clones, mutants and genetic engineering. Look for the links that tell about Hawaii connections to DNA in agriculture.

http://www.ctahr.hawaii.edu/dnatoday/

2016 Agriculture and Environmental Awareness Day
Over 500 fifth-grade students and teachers from local public schools participated in the 2016 Agriculture and Environmental Awareness and Open House on Friday, March 4, 2016 and Saturday, March 5, 2016, at CTAHR’s Waimanalo Research Station. The purpose of the outdoor Awareness Day event, with many hands-on activities, is to generate greater awareness and understanding of agriculture and the environment among today’s youth, teachers, and general public, as well as to introduce career opportunities in various agriculture fields. There were over 12 exhibits at this year’s Agriculture and Environmental Awareness Day event. Funding support was provided by USDA through CTAHR’s Agribusiness Education, Training, and Incubation Program.

University of Hawai‘i Insect Museum
The University of Hawai‘i Insect Museum serves as a center for insect identification and systematics-based research. We have workspace, equipment, and resources for detailed taxonomic analysis, and researchers from many different laboratories are able to work and interact under its auspices. Our close association with the extensive collections and staff of the Bishop Museum greatly enhances this interactive museum community.

To learn more about these STEM Education projects, please contact: Dr. Charles Kinoshita (cmkinosh@hawaii.edu); (808) 956-6997