Kauaʻi Community College

Mission:
A primary resource center and gathering place for residents and visitors, this community college in Lihuʻe offers business, technology, hospitality, health, early childhood education and liberal arts courses and administers the UH Center on Kauaʻi.

College Website:
http://www.kauai.hawaii.edu

STEM Degree Programs:
- Biological Science (ASNS transfer)
- Physical Science (ASNS transfer)
- Electronics Technology (CO, CA, AS)
- Facilities Engineering Tech (CO)
- Marine Option Program
- Plant Bioscience (CO, CA, AS)
- Sustainable Science Management (CO, CA)

STEM Education Funding since FY2012:
$2,441,041*

Campus Profile:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Enrollment</th>
<th>Women</th>
<th>Native Hawaiian</th>
<th>Degrees and Certificates Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>1,332</td>
<td>58%</td>
<td>33%</td>
<td>248</td>
</tr>
<tr>
<td>2014</td>
<td>1,325</td>
<td>58%</td>
<td>33%</td>
<td>247</td>
</tr>
<tr>
<td>2015</td>
<td>1,313</td>
<td>58%</td>
<td>33%</td>
<td>245</td>
</tr>
<tr>
<td>2016</td>
<td>1,301</td>
<td>58%</td>
<td>33%</td>
<td>243</td>
</tr>
</tbody>
</table>

STEM Profile:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total STEM Enrollment</th>
<th>Women</th>
<th>Native Hawaiian</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>74</td>
<td>26%</td>
<td>35%</td>
</tr>
<tr>
<td>2014</td>
<td>82</td>
<td>26%</td>
<td>35%</td>
</tr>
<tr>
<td>2015</td>
<td>90</td>
<td>26%</td>
<td>35%</td>
</tr>
<tr>
<td>2016</td>
<td>98</td>
<td>26%</td>
<td>35%</td>
</tr>
</tbody>
</table>

Total STEM Degrees and Certificates Awarded (2015-16):
- Certificates: 33
- ASNS: 2
- AS: 2

* 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

Kaua’i Community College’s Cognition Learning Center (Cogs):
Kaua’i Community College’s Cognition Learning Center (Cogs) is a place where college students, faculty, and staff can voluntarily invest their time and skills to bring innovative ideas in the STEM field to fruition. Cogs promotes individual creativity by empowering student led projects. Past projects include electric vehicle conversions, educating through virtual reality, and the construction of hands on, thought provoking science exhibits. With the CogsGo mobile unit (Cognition bus), Cogs is able to reach out to the community and provide STEM education for students in grades K-12. The Cogs mission is to inspire and encourage inquiry, exploration, and hands on learning to excite students of all ages. Science is fun, fun educates.
http://cogs.kauai.hawaii.edu

Ulutopia: An Experiential Teaching and Learning Platform for Kaua’i
Ulutopia is a research field at Kaua’i CC for breadfruit (Artocarpus altulis (Parkinson) Fosberg; Moraceae) husbandry where most of the activities such as data recording and analyzing are implemented with the participation of STEM / Plant Biology and Tropical Agriculture (PBT) students. Thus, the main objective of Ulutopia is to develop undergraduate students’ research skills. Ulutopia has been supported by annual grants from the United States Department of Agriculture (USDA) - National Institute of Food and Agriculture (NIFA).

Mathematics and Science Partnerships:
The Hawai’i Department of Education (DOE) Mathematics and Science Partnerships (MSP) Program MOA for services for higher education mathematics faculty to provide training and consultation services to secondary mathematics in Kaua’i high schools who are participating in a district-wide MSP Grant Project.

Mauka to Makai:
Mapping for Sustainable Learning is a community-based mapping and analysis program that offers two STEM certificates in Geographic Information Systems (GIS). The program emphasizes hands-on, field experience with an appreciation of cultural perpetuation.

The Edge of Kaua’i (TEOK):
TEOK Investigations and UH Sea Grant College Program at Kaua’i Community College Kaua’i CC students work in partnership with Sea Grant, Kaua’i CC Marine Option Program, and The Edge of Kaua’i (TEOK) Investigations to better understand shoreline change dynamics, particularly seasonal erosion events. Students are trained to collect data and educate their peers and the public regarding the changes in our dynamic beaches. The data and key findings are conveyed for use by planners, decision makes, and the public. Student stipends were funded by Sea Grant in 2014-2015.

To learn more about these STEM Education projects, please contact: Dr. James Dire (dire@hawaii.edu); (808) 245-8229