Mission:
Of service to the Windward region of O‘ahu and located in Kāne‘ohe, WCC specializes in environmental sciences, creative arts, and Hawaiian studies. It is home to a planetarium, observatory, and the only Veterinary Technology program in the state. WCC educates a community rich in diversity – in 2014, the Chronicle of Higher Education named WCC as the most diverse higher education institution in the United States.

College Website:
https://windward.hawaii.edu

STEM Education Funding since FY2012:
$4,329,739+

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>1,775</td>
<td>62%</td>
<td>47%</td>
<td>348</td>
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<tr>
<td>2014</td>
<td>1,693</td>
<td>65%</td>
<td>47%</td>
<td>330</td>
</tr>
<tr>
<td>2015</td>
<td>1,684</td>
<td>66%</td>
<td>47%</td>
<td>330</td>
</tr>
<tr>
<td>2016</td>
<td>1,707</td>
<td>66%</td>
<td>47%</td>
<td>339</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Total STEM Enrollment</th>
<th>% Women</th>
<th>% Native Hawaiian</th>
<th>STEM Degrees and Certificates Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>186</td>
<td>54%</td>
<td>34%</td>
<td>31</td>
</tr>
<tr>
<td>2014</td>
<td>172</td>
<td>54%</td>
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<td>31</td>
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<tr>
<td>2015</td>
<td>177</td>
<td>54%</td>
<td>34%</td>
<td>31</td>
</tr>
<tr>
<td>2016</td>
<td>186</td>
<td>54%</td>
<td>34%</td>
<td>31</td>
</tr>
</tbody>
</table>

STEM Degree Programs:
- Biological Sciences (ASNS transfer)
- Pre-Engineering (ASNS transfer)
- Physical Sciences (ASNS transfer)
- Agripharmatech (CO, CA)
- BioResources and Technology (ASC)
- Sustainable Agriculture (CO)
- Web Support (CO)

*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

**Natural Sciences Department:**
Provide students with a solid background in the fundamentals of science and promote the knowledge, skills and opportunities that support current and emerging STEM fields and careers. Concentrations available in Biological Science, Physical Science, and Pre-Engineering.

[https://windward.hawaii.edu/natural_sciences/](https://windward.hawaii.edu/natural_sciences/)

**Kulia:** Natural Resource Stewardship Program for Native Hawaiian Middle and High School Students of Windward Oahu.
WCC Pacific Center for Environmental Studies provides high school students a college-level summer environmental science education and research program. Students gain an understanding of the Kane’ohe Bay watershed and coral reef ecosystem and enhance their depth of knowledge of current scientific methodology, research techniques, and scientific tools. In addition, PaCES will support Castle High School’s special 3-week summer transitional bridge program that prepares incoming 8th grade graduates with instructional activities that provide a head start to meet academic and behavioral expectations of high school using the theme of natural resource management.

**Hanaiaulu:** Feed and Grow, Nurturing Student Parents and STEM at Windward Community College through Renovation.
This project proposes two activities to address University of Hawai‘i goals for access, success, STEM, and workforce preparedness: 1. Strengthening STEM student success through facility renovation and curricular improvement. 2. Strengthening student success through the development of a Student Parent Center to holistically serve Student Parent needs.

**WCC ‘IKE Internship:**
The internship component of this program was developed in order to provide WCC ‘IKE students a hands-on opportunity to learn and participate in research or training in the STEM field. Students who participate in this program will be mentored by professionals and professors in the STEM disciplines. Priority will be given to those who have not participated in previous internships. Student stipend is $1200 per semester.

**Collaborative Research:** Early-concept Grant for Exploratory Research: Understanding the Confluence-Social Identities and Engineering Education and Practice (collaborative project with Oregon State University and the University of Texas Rio Grande Valley).
Research will be conducted to establish a connection between the cultural and identity development of marginalized groups with progression through Engineering or Computer Science degree programs and commitment to the STEM professions.

**STEM High School to College Program:**
Agripharmatech: Plant and Food Production program at Kailua High School.
Over a period of twelve months, students at Kailua HS will be able to enroll in and complete the Certificate of Completion. Program includes wrap-around student services, career development experiences, and industry-based cooperative learning activities.

To learn more about these STEM Education projects, please contact: Charles Sasaki (sasakich@hawaii.edu); (808) 235-7416