Mission:
The largest and oldest UH campus is located in a residential valley above Waikiki. Manoa offers undergraduate, graduate and professional degrees; a strong, vital research program; and nationally ranked NCAA Division I athletics.

Campus Website:
http://manoa.hawaii.edu

STEM Degree Colleges and Schools:
College of Education
College of Engineering
College of Natural Sciences
College of Tropical Agriculture and Human Resources
Institute for Astronomy
John A. Burns School of Medicine
School of Ocean and Earth Science and Technology

STEM Education Funding since FY2012:
$89,943,199+

Campus Profile:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Enrollment</th>
<th>% Women</th>
<th>% Native Hawaiian</th>
<th>Degrees Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>17,967</td>
<td>56%</td>
<td>15%</td>
<td>5,104</td>
</tr>
<tr>
<td>2014</td>
<td></td>
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<td>2015</td>
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</tr>
<tr>
<td>2016</td>
<td></td>
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</tr>
</tbody>
</table>

STEM Profile:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total STEM Enrollment</th>
<th>% Women</th>
<th>% Native Hawaiian</th>
<th>STEM Degrees Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>5,008</td>
<td>44%</td>
<td>11%</td>
<td>1,062</td>
</tr>
<tr>
<td>2014</td>
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<td>2015</td>
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<tr>
<td>2016</td>
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</tr>
</tbody>
</table>

+ 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

**STEM for Diverse Learners**
Science, technology, engineering and math -- known collectively as STEM -- are not just critical to economic growth and national competitiveness, they are essential to solving the world’s most pressing problems. STEMD2 at the University of Hawai‘i at Mānoa is a research and development team aimed at advancing knowledge, transforming practice, and building capacity to broaden participation and achievement of students underrepresented in STEM degree programs and in the workforce.

STEMD2 Research & Development Group explores, experiments and executes research-based practices to support STEM education transformation, particularly the education of marginalized learners and students with special learning needs. Our ultimate goal is to close the achievement gap and pave the way for underrepresented learners in STEM programs. The lab’s unique location in Hawai‘i allows us to innovate and test socially and culturally responsive strategies among diverse students such as technology-enabled social learning through human connection.

**Exploratory STEM**
The STEM path was designed for students interested in learning about major topics, concepts, processes, and interrelationships of natural sciences, tropical agriculture and human resources, as well as ocean and earth science and technology. Students who select this path will have the opportunity to further specify interest in any of the following: biological sciences, micro-level sciences, ocean and environmental sciences, plant sciences, and resource management sciences.

http://manoa.hawaii.edu/undergrad/exploratory/stem/

**Ka Pilina**
The Ka Pilina projects have multiple components to strengthen students’ Algebra skills and apply mathematics in various areas of STEM. In order to help improve the skills, the project incorporate: Teacher Professional Development, Math Camps, Math Community Days and Intelligent Tutoring Systems in Math. Ka Pilina, The Connection in Hawaiian, connects middle school and high school students to improved math concepts using technology, evidence-based teaching strategies, and college mentors. Ka Pilina project also connects students to math concepts that incorporate local and Hawaiian culture, daily life skills and to other Science, Technology, Engineering and Mathematics (STEM) areas.

**Graduate Professional Access Program (GPA)**
The Graduate Professional Access Program (GPA) is one of nine programs administered by the Office of Student Equity Excellence and Diversity (SEED) at UH Mānoa. Programs under the SEED umbrella benefit from the synergies created by seamless activities that ensure an inclusive and supportive environment at the university. All programs address health disparities in the islands and provide a pathway for the advancement of students and faculty from underrepresented groups in Science, Technology, Engineering and Math (STEM) fields.

http://www.hawaii.edu/diversity/gpa/index.html

To learn more about these STEM Education projects, please contact: Office of STEM Education (stem@hawaii.edu)