KCC STEM VISION
A diverse, internationally competitive, and globally-engaged workforce of scientists, engineers, and well-prepared citizens.

The Kapi'olani STEM Program strives to enhance the quality of instruction and outreach in science, technology, engineering and math (STEM) at Kapi'olani Community College. Students are supported in their pursuit of the Associate of Science in Natural Science degree, in their transfer to four-year degree programs, and in their preparation for today’s workforce. The program explicitly focuses on promoting diversity, with emphasis on supporting Native Hawaiian and other underrepresented populations in the STEM fields.

The STEM Center Facility at Koki’o is the home of the STEM Program and is a gathering place for students and faculty. The center offers peer-mentoring services, tutoring, computer workstations, and science/math educational resources for all KCC students daily, including evenings and weekends.

Please send your completed application packet to:
Mrs. Keolani Noa, STEM Outreach Coordinator
Kapi'olani Community College, Math and Sciences
4303 Diamond Head Road, Koki'o Bldg.
Honolulu, HI 96816
Phone: (808) 734-9236
Fax: (808) 734-9151
Email: keolani@hawaii.edu
IKE Support: Aurora Kagawa,
kagawa@hawaii.edu

The STEM Program provides students with:
1. A "sense of place" on campus
2. Tools to define clear academic and career goals
3. Hands-on experience and field-specific skill-building
4. Funding and work opportunities
5. A community of support, the STEM team of faculty, students, and coordinators

For more information, please visit the official KCC STEM Program website at: http://stem.kcc.hawaii.edu

The Summer Experiences are made possible through funding from National Science Foundation awards HRD-1023665 and HRD-1037827.

The University of Hawai'i/Kapi'olani Community College is an Equal Opportunity/Affirmative Action Institution
The Kapi'olani Community College STEM Summer Experience...

is an intensive six-week program for recent Hawaii high school graduates interested in exploring careers in science, technology, engineering, and math (S.T.E.M.). To help students establish a strong math and science foundation, students are mentored by college faculty and student peers in a supportive and engaging setting. The program runs Monday-Friday from 9:00 a.m. to 4:00 p.m. with a two-hour math course, group study time, and hands-on activities.

The program has two tracks: Hākilo (ecology) or 'IKE (engineering) that feature learning and work opportunities in these fields each afternoon. Over the summer, students not only learn about college, they also explore the relevance of modern science and engineering to sustainability and Hawai'i's past, present, and future.

**In Hākilo…** students explore ecology through 'āina-focused activities. Projects have included biodiesel processing and ahupua'a-level water quality assessment in urban O'ahu and this year will focus on poi and kalo microbiology and aquaponic food systems. Students meet professionals, participate in service learning, and through direct experience, learn about careers in environmental fields from natural resource management to oceanography.

**In 'IKE…** students explore engineering through hands-on design projects. Projects this year will focus on aquaponic energy and pumping systems and electric guitar design and construction. Through visits to different sites, students learn about opportunities in sustainability-related engineering on O'ahu. Students choosing to continue on the KCC 'IKE pre-engineering pathway move together as a cohort in the following years to ensure successful transfer to the UHM College of Engineering.

Summer Experience students successfully completing Hākilo or 'IKE earn college math credit and gain valuable experience. Upon enrollment at KCC, they may also be eligible for paid research internships, peer mentorships, or scholarships. These opportunities provide students additional financial support allowing them to focus on their academics and participate in unique work, leadership, networking, and travel experiences.

**KCC Summer Experience Eligibility**
- Complete three or more math courses
- Complete Chemistry and/or Physics
- Plan to attend college in Hawaii and major in a STEM discipline

**Application Requirements**
- Completed Summer Experience application
- One letter of recommendation from a high school science or math teacher, counselor, or administrator
- A copy of your current high school transcript
- Essay: Tell us your story and help us get to know you in 500 words or less. Please share your experiences, career/life goals, and interests.

**Kapi'olani Summer Experience Application**
**Deadline: April 2, 2012**

Program preference (check either or both):
___ Hākilo Summer Ecology Experience
___ 'IKE Summer Engineering Experience

Name: ________________________________
Address: ________________________________
City, State, Zip Code: ________________________________
Birth date: ________________________________
Are you a U.S. Citizen (circle one)?:     Yes     No
Home Phone: ___________________________ Cel: ___________________________
Best email to reach you: ___________________________

Courses you have taken or are taking (circle all that apply):
Algebra 1   Pre-Calculus   Chemistry
Algebra 2   Calculus   Physics
Trigonometry   Biology   Biology

High school: ________________________________

Where do you plan to attend college?
______________________________

Ethnicity (circle all that apply):
Hawaiian   Samoan   Pacific Islander
American Indian   African American   Hispanic
Filipino   Japanese   Chinese
Caucasian   Korean
Other (please specify): ________________________________