

# Observing our World – The Physics-Math Connection

Nānā Pono i ko kākou Honua

July 12 – 30, 2004

Non-Credit\*

University of Hawai'i at Hilo

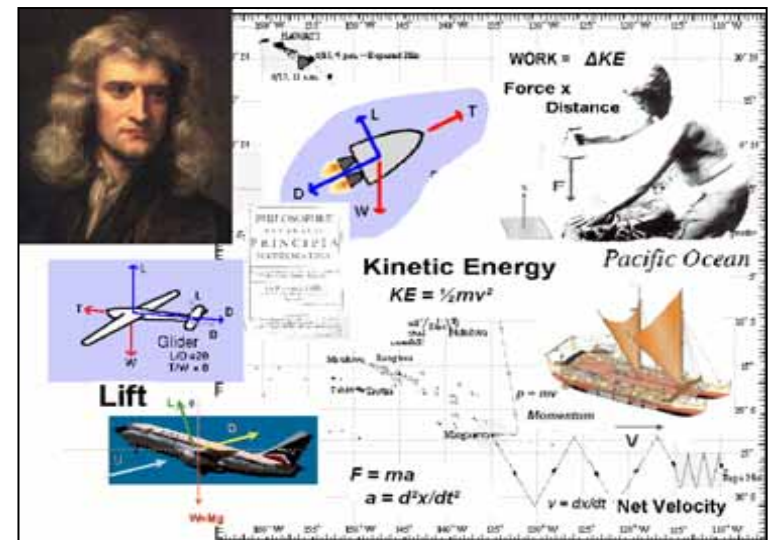
The goal of this program is to empower students with a mastery of the **basic** principles of mechanics and the mathematics used to describe them. Mathematics and physics are so fundamental that every science from Biology to Chemistry to Geology draws from their principles as the foundations of their fields. This is why almost *every* B.S. degree offered by UH-Hilo requires a student to *successfully* complete the course PHYS 170/171. Everyone intending to major in any of the physical or biological sciences, engineering and computer sciences will find this preparatory short course beneficial.

## Sample Daily Schedule:

8:30 - 8:45	Overview of Day's Activities (with refreshments)
8:45 - 9:45	Mathematics Lecture Section
9:45 - 10:00	Break
10:00 - 11:00	Physics Lecture Section
11:00 - 12:15	Special activity **
12:15 - 1:00	Lunch
1:00 - 3:00	Tutorials

\*\*1. Solution Lab 2. Hands-On Physics Lab "Theory meets Reality" 3. Invited Speakers  
The course also includes fieldtrips to observe how physics and math are used in scientific settings, research, and practical application.

Instructors: Mr. John Hamilton (Physics/Astronomy Dept.)  
Dr. Erica Bernstein (Mathematics Dept.).



Application forms are available at CH 4C (Dr. Cordero-Braña's Office), SSB-206 (Hawaiian Leadership Development Program Office) and at K-273B (Keaholoa's office). Applications are also available on our website: <http://www2.hawaii.edu/~keaholoa/> or email [keaholoa@hawaii.edu](mailto:keaholoa@hawaii.edu).

**Deadline for application is May 14, 2004.**

\*Non-Credit Summer Intensive course with limited **stipends available for attending the course** for students underrepresented in Science and Mathematics Majors.  
The Keaholoa STEM Program is funded by the National Science Foundations Tribal Colleges and Universities Program.