What is the Hawai‘i Institute of Marine Biology (HIMB)?

As a research unit within the University of Hawai‘i’s School of Ocean and Earth Science and Technology, HIMB is home to world-class facilities for researchers and students in wide-ranging disciplines related to tropical marine science.

The island itself provides a unique living laboratory surrounded by 64 acres of coral reef designated by the State of Hawai‘i as a Hawai‘i Marine Laboratory Refuge.

Founded in 1947, HIMB is situated on Moku o Lo‘e, more widely known as Coconut Island, in Kāne‘ohe Bay, O‘ahu, Hawai‘i.

CONTACT US!

To schedule or inquire, email HIMBED@hawaii.edu and provide us with the following information:

✓ Name of school
✓ Group contact’s name, address, phone, and email
✓ Title I status
✓ Number of students
✓ Number of chaperones (10:1 ratio recommended)
✓ Preferred dates
✓ 1st and 2nd choice of lab (if 1st is seasonal)

VISIT US ON THE WEB:
www2.hawaii.edu/~himbed
AN IDEAL SETTING…

The Marine Science Research Learning Center is a facility dedicated to providing science and research educational opportunities for high school students.

HANDS-ON LEARNING…

We offer four inquiry-based labs, in which students learn about the scientific method, hypothesis testing, and designing experiments in a marine biology context:

✓ OCEAN ACIDIFICATION
✓ SQUID NEUROETHOLOGY
✓ MARINE BIOACOUSTICS
✓ URCHIN FERTILIZATION
✓ CORAL GROWTH & SURVIVAL
✓ MARINE BIODIVERSITY

TESTING HYPOTHESES…

Ocean Acidification: using coral skeletons and manipulating pH with CO₂ gas to measure the effects on water hardness and Ca²⁺ dissolution

Marine Neuroethology: using marine invertebrates to produce ethograms and examine the mechanics of animal behavior

Marine Bioacoustics: using hydrophones to listen and analyze the sounds of marine invertebrate interactions

Sea Urchin Fertilization: using collector urchins to test the effects of water quality on fertilization and embryonic development (seasonal)

Coral Growth and Survival: using coral settlement tiles to examine and record how different environments influence the growth of coral colonies

Marine Biodiversity: using Autonomous Reef Monitoring Structures (ARMS) to record and calculate biodiversity of the reef cryptofauna community in different environment

A UNIQUE LEARNING EXPERIENCE…

We have updated our modules to reflect the use of investigative phenomena consistent with the Next Generation Science Standards. Students spend the majority of their visit conducting research. Additional written and powerpoint materials are also available for teachers upon request that can help provide preparation before the visit, as well as guide them through the process of scientific communication in the form of a discussion/lab presentation that can be completed at after the field trip. Please inquire.

OTHER LOGISTICS:

Fieldtrips generally start at 9AM and require approximately 3½ to 4 hours to complete. For high schools from Hawai‘i, the fee is $125 for the first 20 participants, $5 for each additional participant. Fees for other groups differ, please inquire for an estimate. Max is 24-36 participants, depending on the module (not including chaperones). Lab fees are in addition to transportation cost, which is $175 for a round trip boat ride from He‘eia Kea Small Boat Harbor (approximately 20 minutes each way). Prices subject to change.