The marine science program at UH Hilo inspires and enlightens all learners about the ocean through interactive hands-on learning, research involvement, and community outreach centered around the natural and cultural environment of Hawai‘i Island.
Why are you here?
Earth’s ocean is more than just a favorite place or activity, it is our -

LIFE SUPPORT SYSTEM ON EARTH

Even if we don’t become marine researchers, EVERYONE needs to understand our life support system as much as possible in order to protect and preserve its function.

Dr. Sylvia Earle
Author, Sea Change
Established in 1992, UHH Marine Science is one of the largest programs at UH Hilo, and serves approximately 200 students annually.
✓ Faculty and Staff Introductions
✓ Overview of Program
✓ Facilities
✓ Graduates
✓ Program Details and Advising Resources
Faculty and Staff
Dr. Karla McDermid*
Marine Botanist

Dr. Marta deMaintenon
Marine Invertebrate Zoologist

*UH Board of Regents Award for Excellence in Teaching
Dr. Jim Beets
Marine Ecologist, Fish Biologist

Dr. Tracy Wiegner
Stream and Estuarine Biogeochemist
Dr. Misaki Takabayashi
Marine Molecular Ecologist & Coral Geneticist
(Interim Associate Dean this semester)

Dr. Jason Turner*
Marine Food Web Ecologist

*UH Francis Davis Award for Excellence In Undergraduate Teaching
Dr. Jason Adolf  
Phytoplankton Ecologist

Dr. Steven Colbert  
Geological Oceanographer
Dr. Anita Leinweber
Physical Oceanographer

Dr. Tim Grabowski
Unit Leader USGS Hawaii Cooperative Fishery Research Unit
Instructor in Marine Science / UHH Marine Option Program (MOP) Coordinator

Lisa Parr, M.S. *

* UH Francis Award for Excellence In Undergraduate Teaching
Lecturers in Marine Science

John Burns, PhD

Makaniokekai Gregg, M.S.
Marine Science Staff

Matthew Connelly, M.S.
Education Specialist
MOP / QUEST / MARE

Captain Stephen Kennedy
Boat Program Coordinator
Marine Science Staff

Tara Holitzki, M.S.
Analytical Lab Manager

Erik Johnson, M.S.
Analytical Lab Manager

Etta Karth
Educational Specialist
MARE Teaching Assistants (TCBES)

Hōkūokahalelani Pihana
(MARE TA)
(M.S. Candidate)

Hillary Street
(MARE TA)
(M.S. Candidate)
MARE Student Mentors

Mikayla Jones
mikaylaj@hawaii.edu
Year: Senior
Entered as: Freshman
Expected Grad: June 2017
Accomplishment:
Awarded the 2015-2017 NOAA Educational Partnership Program Scholarship

Tyler Phelps
phelpst@hawaii.edu
Transfer student (from Soka University - Aliso Viejo, CA)
Senior at UHH (expected graduation - Spring 2017)
Favorite accomplishment:
Deepest SCUBA dive - 414 feet (technical diving passion fueled by an interest in mesophotic research)
Ada Kettner

akettner@hawaii.edu

Transfer student
Class Standing: Senior
Proposed graduation date: Fall 2016, (I'm taking my time)

Accomplishment: Help in developing a Tourism Accreditation System in Vanuatu but its not completed yet. Just helping in discussions.

Zach Gorski

zachary.gorski@gmail.com

Senior standing. Started as a freshman straight out of High School.

Favorite accomplishment was probably photographing BioBlitz 2015 for the National Geographic Society; or doing an internship / Project my freshman summer.
Program Overview
Marine Science at UH Hilo

- Bachelor of Science or Arts in Marine Science
- Multidisciplinary degree program grounded in both Oceanography and Marine Biology
- Focus on advising to assist students in tailoring program to career goals
- Emphasis on field experience
- Small classes facilitate active learning
- Extensive extracurricular activities
- Opportunities for undergraduate research experience
Lab classes all have field components
MANY ways for students to get hands-on experience
So, what gear do you need for field classes???

- Mask, snorkel and fins
- Dive shirt or ‘skin’
- Tabis
- Hat / sunscreen
- Rain coat
- Water bottle
- ‘rite in the rain’ notebook
The UHH Marine Option Program (MOP) sponsors networking, research, extracurricular activities and QUEST

http://www.uhhmop.hawaii.edu/

Whale watching

Research

Turtle tagging

Hiking
QUEST

Quantitative Underwater Ecological Survey Techniques

QUEST teaches scientific diving and coral reef surveying methods
Annual system-wide MOP research symposium

UHH has won best research paper award almost every year since 1989!!
Facilities

- Wet laboratory
- Analytical laboratory
- Biology laboratory
- Research vessel
- Computer classroom
- 40-student lecture hall
UH Hilo research vessel, the R/V *Makani Aha*

...and a fleet of small boats
Wet Labs (MSB and Wentworth)
Analytical Lab – Water Quality Analysis

Carbon, nitrogen, hydrogen analyzer, stable isotopes

Total organic carbon and nitrogen analyzer

High pressure liquid chromatograph

http://hilo.hawaii.edu/~analab/
Scanning Electron Microscope
Biology Lab
Molecular Genetics, Phytoplankton, Marine Debris and More
In Progress…

Marine Lab at Puako

✓ Dorms
✓ Wet Lab
✓ Boat Launch
✓ Future site for Quest
Graduates
MARE graduates are prepared to do great things!
MARE / MOP / QUEST alumni embark on NOAA cruise (2015)
Gavin Key
Kampachi Farms Mariculture Researcher / Dive Safety Officer

Dove Harline-DeMoss
Kampachi Farms Mariculture Research Technician

Darren Garriques
Kampachi Farms Mariculture Research Technician

Careers in Aquaculture / Mariculture
Careers in marine education and outreach

Roxie Silva
Nature Conservancy
Maui Marine Program

Roxanne Stewart
Teacher at Ke Ana Laʻahana Hawaiian Immersion School and cultural practitioner / consultant for HMMRN
Leaders in responsible stewardship

Mark Manuel
NOAA PIFSC Coral Reef Ecosystem Division

Jim Moriarty
Oyster Bay, NY aquaculture

Kehau Springer
Conservation International
‘my office, my briefcase’

BA Hawaiian Studies & Minor Marine Science 2006
Conservation International - Hawai‘i (Formally CI - resource stewardship activities in Hawai‘i.)
Careers in conservation / endangered species management

Amber Howell
Florida Fish and Wildlife Conservation Commission
Marine Mammal Biologist

Stacey Breining
Hawaii Wildlife Fund

Erica Perez
Coral Reef Alliance
Program Director
Hawai`i

John Venrik
National Marine Fisheries Service
Fisheries observer
Dr. Trisha Atwood  
(BA MARE 2007, M.S. TCBES 2009, PhD UBC 2013)  
Assistant Professor  
Utah State University  
Watershed Science Faculty

Emily Cadiz (BA MARE)  
Currently doing Master’s degree at UH Manoa NREM

Topaz Colins (BA MARE)  
Finished UHH TCBES MS degree 2015

…and many more current and past graduate students
Academic Advising Resources

YOU have a **faculty advisor** in MARE. Visit her / him at least once per semester. Plan ahead…

Pick up, study, and understand the CHECKLIST relevant to your degree program (BA or BS)
   Bring this with you when you see your advisor

Learn to use STAR, but not in place of your advisor

http://hilo.hawaii.edu/~advising/home
<table>
<thead>
<tr>
<th>Prerequisite requirements for <strong>BA in Marine Science</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>MARE 171/L, 201/L, &amp; 172 or BIOL 125 or 270 or 175 / 176</strong></td>
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<td>ENG 225 or 287</td>
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<td>CHEM 161/L</td>
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<td>ENG 100</td>
<td>MATH 205</td>
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<tr>
<td>MARE 461 (Geo. Oce.)</td>
<td>Upper Division MARE electives</td>
<td>CHEM 162/L</td>
<td>MARE 250 (stats)</td>
<td>ENG 225</td>
<td>MATH 205</td>
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<tr>
<td></td>
<td>MARE 425 (Chem. Oce.)</td>
<td>CHEM 240/L</td>
<td>MARE 350/L or 353/L (research methods)</td>
<td>MARE 440 (Phys. Oce.)</td>
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<td>MARE 350/L or 353/L (research methods)</td>
<td>MARE 440 (Phys. Oce.)</td>
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Bio minor?? – see advisor before taking MARE 172

Senior thesis (470/471) or Internship (480+3cr) or Seminar (495+3cr)
Academic Advising Resources

We know you can succeed

We’ve seen it before!

http://hilo.hawaii.edu/~advising/home
Kilohana: The Academic Success Center

Kilohana’s mission is to support the learning and retention of all UH Hilo students by fostering the development of independent, self-motivated learners through subject-specific support and academic skills development. This is accomplished by building a network with other units on campus so that faculty and the other members of the campus community are aware of, and utilize effectively, the full spectrum of services that support success.

http://hilo.hawaii.edu/kilohana/
E Komo Mai!

Welcome!
Mahalo for choosing UH Hilo Marine Science

Contact:

Jason E. Adolf
Associate Professor and Chair
808-932-7592
jadolf@hawaii.edu