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.
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

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
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

Jennifer Sims, M.S.

Dr. Lisa Muehlstein
Lecturers in Marine Science

John Burns, M.S.  (PhD candidate)

Makaniokekai Gregg, M.S.

Hōkūokahalelani Pihana (MARE TA)  (M.S. Candidate)
Matthew Connelly, M.S.
Education Specialist
MOP / QUEST / MARE
Tara Holitzki, M.S.
Analytical Lab Manager

Erik Johnson, M.S.
Analytical Lab Manager

Jill Grotkin
Educational Specialist
Marine Science Staff

Etta Karth
Educational Specialist
as of Aug 24
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
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
- Sailing
- Hiking
- Turtle tagging
- Research
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)
Careers in Aquaculture / Mariculture

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 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  Stacey Breining  Erica Perez

Florida Fish and Wildlife Conservation Commission
Marine Mammal Biologist

Hawaii Wildlife Fund

Coral Reef Alliance
Program Director
Hawai`i
Graduate Degree Programs / Academia

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)
Currently finishing Master’s degree at UHH TCBES

Dr. Trisha Atwood
(BA MARE 2007, M.S. TCBES 2009, PhD UBC 2013)
Assistant Professor
Utah State University
Watershed Science Faculty

…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>
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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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<tr>
<td><strong>Competency at Excel</strong></td>
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<tr>
<td><strong>Chemistry placement exam</strong></td>
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<td><strong>English placement exam</strong></td>
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<td><strong>Math placement exam</strong></td>
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<td><strong>MATH prereqs?</strong></td>
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<tr>
<td><strong>MARE 265</strong></td>
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<tr>
<td><strong>MARE 250 (stats)</strong></td>
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<td><strong>CHEM 124/L</strong></td>
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<td><strong>ENG 100</strong></td>
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<tr>
<td><strong>MATH 205 or 115</strong></td>
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<tr>
<td><strong>PHYS 106 / 170L (or 170/L w/ MATH 205)</strong></td>
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<td><strong>Upper Division MARE electives</strong></td>
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<tr>
<td><strong>MARE 350/L or 353/L (research methods)</strong></td>
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<tr>
<td><strong>CHEM 125/L</strong></td>
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<td><strong>ENG 225</strong></td>
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<tr>
<td><strong>MARE 350/L or 353/L (research methods)</strong></td>
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<tr>
<td><strong>Senior thesis (470/471) or Internship (480+3cr) or Seminar (495+3cr)</strong></td>
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<tr>
<td><strong>Bio minor?? – see advisor before taking MARE 172</strong></td>
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<td>GEOL 111</td>
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Academic Advising Resources

We know you can succeed

We’ve seen it before!

http://hilo.hawaii.edu/~advising/home
MARE Student Mentors for Incoming Students

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

Danielle Larson
drlarson@hawaii.edu
Year: Super Senior
Transfer
Spring 2016 graduation
Accomplishment: Teaching job offer post graduation

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)
MARE Student Mentors for Incoming Students

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.

Kate Carrol
kc47@hawaii.edu
Came in as a freshmen
Class Standing: Senior
Graduation in Spring 2016
Accomplishment: Hollings Scholarship and the NOAA internship over the summer at Mississippi Labs

Zach Gorski
zachary.gorski@gmail.com
Senior standing. Started as a freshman strait out of High School.
Favorite accomplishment was probably photographing BioBlitz 2015 for the National Geographic Society; or doing an internship / Project my freshman summer.
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