RIGOROUS CLASSES IN A SMALL SETTING
FOREVER EXPERIENCES INTERNATIONAL TRAVEL COURSES
WIDE VARIETY OF CLASSES FOR SCIENCE OR NON SCIENCE MAJORS
COASTAL CAMPUS
VOLUNTEER OPPORTUNITIES FOR PRE-HEALTH
CUTTING EDGE LABS + RESEARCH
ONLINE
DUKEMARINELAB.NET
SOCIAL MEDIA
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Located in the historic coastal town of Beaufort, N.C., at the southern tip of the Outer Banks, the Duke University Marine Laboratory offers unparalleled opportunities for students to learn about marine science, conservation and governance through immersive learning and hands-on research.

Our students benefit from small classes, one-on-one interaction with faculty, and access to world-class facilities. As part of Duke’s Nicholas School of the Environment, we offer over 40 undergraduate courses spanning many disciplines and majors.

Many students, particularly those in pre-health, natural science and environmental science majors, take advantage of our small class sizes and personalized instruction to fulfill required coursework and explore electives and independent study options not offered elsewhere.

Graduate students in our highly ranked professional Master of Environmental Management (MEM) degree receive intensive, interdisciplinary training that prepares them for leadership in a wide range of traditional and emerging fields – from species conservation and resource management, to geospatial analysis, community-based coastal development, and marine biotechnology.

Our faculty and alums are world leaders in their fields.

Students from any university can study at the Duke Marine Lab, including students from our Marine Sciences Education Consortium of 36 member institutions.

Each year, more than 3,500 scientists, students and visitors come to the Marine Lab to ignite or rekindle their passion to learn about the marine environment in an inclusive and welcoming community of scholars located in one of the most beautiful natural settings on the East Coast. Join us!
SUMMER TUITION SCHOLARSHIPS
(SUMMER TERMS I & II)
APP DEADLINE: MAR. 22
Duke University Marine Lab Summer Tuition Scholarships are available to all students enrolled in marine science summer courses. Award of a Summer Tuition Scholarship covers tuition for one course; students are responsible for room, board and fees.

MARINE SCIENCE AND CONSERVATION SCHOLARSHIPS (FALL) APP DEADLINE: FEB. 15
Two full scholarships are available for non-Duke undergraduates for the fall semester. Scholarships cover tuition & fees, room & board, books, travel to Beaufort, and full support for participation in a Beaufort Signature Travel Course.

RESIDENTIAL ADVISOR POSITIONS (FALL, SPRING, SUMMER TERMS I & II)
The Duke University Marine Lab offers two Residential Advisor (RA) positions during each academic term. The RAs share duties and on-call time. The RAs must be enrolled at the Duke University Marine Lab and are expected to live on campus. The RAs each receive a 60% reduction on room and board as payment for their services. Additional information is available on the Marine Lab Website.

DUKE UNIVERSITY FINANCIAL AID
Duke students enrolled at the Marine Lab receive the same financial support available during a comparable academic term on main campus. Talk with your financial aid advisor about enrolling at the Duke Marine Lab.
<table>
<thead>
<tr>
<th>Fall + Spring Tuition</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>tuition</td>
<td>$26,880 (per semester)</td>
</tr>
<tr>
<td>room and board</td>
<td>$3,547 (double room)</td>
</tr>
<tr>
<td></td>
<td>or $4,719 (single room)</td>
</tr>
<tr>
<td></td>
<td>$4,300 (board)</td>
</tr>
<tr>
<td></td>
<td>and $290.25 (NC state tax)</td>
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<tr>
<td>health fee</td>
<td>$407 (per semester)</td>
</tr>
<tr>
<td>activity fee</td>
<td>$150 (per semester)</td>
</tr>
<tr>
<td>transcript fee</td>
<td>$40 (for non-Duke students)</td>
</tr>
</tbody>
</table>

* Tuition subject to change. Please check dukemarinela.net to verify tuition rates and fees.
* Beaufort Signature Travel Course costs are NOT included.
* Student insurance is required, either through the Marine Lab or as personal health insurance.
Michaela Stith is a senior majoring in Environmental Sciences & Policy, with a marine science & conservation concentration and history minor. Originally from Anchorage, Alaska, she is passionate about applying what she learns at Duke to help communities in her home state implement new and better solutions for alleviating and adapting to the effects of climate change. She spent two terms in Beaufort: Spring Semester during her sophomore year and Summer Term 1 after her junior year. During the spring semester, Michaela completed an internship with Environment North Carolina focusing on Atlantic offshore drilling. She also traveled to Mexico with the Community-Based Marine Conservation course to learn how local communities are working to conserve commercially fished species, sea turtles and other marine animals in their local waters. While at the Marine Lab Michaela was able to fulfill her quantitative studies requirement as well Molecular Biology (BIO 201), and Statistics. Her favorite part about the Marine Lab is the familial community, “Even after a year away from the Lab, all the staff and professors I had met during the spring remembered my name and were happy to see me.”
The Duke University Marine Lab offers undergraduate courses in fall, spring, and two summer terms. Courses are taught by world-renowned faculty. Small class sizes and an island setting facilitate rewarding student-faculty interactions. Enrollment is open to all college undergraduate students.

Students in any major are welcome to study at the Duke University Marine Lab. Courses at the lab are offered through Biology, Environmental Science, and Earth & Ocean Sciences and courses fulfill requirements within these majors, including Biology’s Marine Biology concentration.

Environmental Science majors can add a concentration in Marine Science and Conservation with both the AB and BS degrees. Marine Lab courses also fulfill a wide variety of Trinity general education requirements and are cross-listed with other disciplines, including engineering, public policy and neuroscience. Students should check with their respective major departments for more information.

ENROLLMENT
Duke students: All Duke undergraduates from any major in good academic standing are automatically accepted into Duke Marine Lab courses; no application is necessary and there are no deadlines for enrollment. Students can enroll through DukeHub.

We also welcome students from other universities to study with us. Non-Duke undergraduates can submit an enrollment form and a current transcript to the Academic and Enrollment Services Office for review. The enrollment form is available on the Duke University Marine Lab website.
FALL 2019 | DUKE IMMERSE

OCEANS, HUMAN + ENVIRONMENTAL HEALTH
Investigating interactions between human and environmental health at the Duke Marine Lab and Duke-Kunshan University.
UNDERGRAD COURSES

2018 FALL
AUG27-DEC14

Marine Climate Change.
NS, EI, STS.

Genetics & Evolution.
NS, STS.

Marine Policy.
EI, SS, STS.

Data and Time Series Analysis.
NS, QS.

Molecular Biology.
NS, STS.

Aquaculture and the Environment.
NS, STS, W.

Environmental Toxicology.
NS.

Marine Conservation Service Learning.
NS, STS.

General Physics I.
NS, QS.

Marine Ecology. NS, R, W.

Marine Invertebrate Zoology. NS, R.

Marine Mammals. NS, STS.

Research Independent Study. R.

Sensory Physiology of Marine Animals.
NS, R, W.

TRAVEL COURSES

Tropical Marine Ecology (PANAMA during fall break).

2019 SPRING
JAN9-MAY3

Coastal Watershed Science and Policy.
NS, STS.

Biological Oceanography. NS, R.

Conservation and Development.
SS, CCI.

Marine Fisheries Policy. EI, SS.

Sound in the Sea: Introduction to Marine Bioacoustics. NS, STS, R.

Intro Physical Oceanography.
NS, STS, QS.

Research Independent Study. R.

Social Impact Analysis. EI, SS.

Deep-Sea Science and Environmental Management. NS, R, STS.

Comparative Physiology of Marine Animals. NS, R, W.

Molecular Biology. NS, STS.

TRAVEL COURSES

Community-Based Marine Conservation (Baja).

Marine Ecology (Australia).

Biology & Conservation of Sea Turtles (Puerto Rico).

Urban Tropical Ecology (Singapore).

SEE PG. 10 FOR MORE

ALP = Arts, Literature and Performance; CCI = Cross-Cultural Inquiry; EI = Ethical Inquiry; NS = Natural Science; SS = Social Science; STS = Science, Technology and Society; QS = Quantitative Studies; R = Research; W = Writing.
Molecular Biology. NS, STS.

General Physics I. NS, QS.

Research Independent Study. R.

Marine Invertebrate Zoology. NS, STS.

Data Analysis and Statistical Inference. QS, STS, R.

Ocean Media: Literature, Science + the Sea. ALP, EI, W.

Comparative Molecular Genetics and Physiology (Marine Mammals). NS, R, W.

**New!** Organic Chemistry I. NS, STS.

General Physics II. NS, QS.

Marine Ecology. NS, R, W.

Research Independent Study. R.

Drones in Marine Biology, Ecology & Conservation. NS, STS.

Marine Mammals. NS, STS, R.

Conservation Biology and Policy. EI, STS, NS.

Biology and Conservation of Sea Turtles. NS, STS.

**New!** Organic Chemistry II. NS, STS.
As a Coastal Environmental Management Masters student, Nick spent a year at the Marine Lab, which allowed him to pursue his interests in marine mammals and ecology. The DUML faculty provided opportunities to assist with a variety of interdisciplinary projects, including research on humpback whale foraging ecology in Antarctica and the use of drones in marine science and conservation. Nick was able to learn from the world’s leading experts on marine mammal biology and conservation, and form long-lasting relationships with them. He was also able to obtain a certificate in Geospatial Analysis, while understanding how quantitative methods are used as tools to influence policy. The Marine Lab prepared Nick for a career in academia by affording him the ability to present his work at professional conferences and work closely with faculty. Nick believes “The Duke Marine Lab is an outstanding place to study, grow, and easily follow one’s passion in marine science and policy.”
The Master of Environmental Management (MEM) degree trains students to understand the scientific basis of environmental problems, as well as the social, political and economic factors that determine effective policy options. Students opting for a MEM degree in Coastal Environmental Management spend the first year in Durham fulfilling required course work; the second year is typically spent at the Duke Marine Lab, where further course work and a Masters Project are completed.
Marine Policy.
Marine Ecology.
Sensory Physiology of Marine Animals.
Date & Time Series Analysis.
Aquaculture and the Environment.
Environmental Toxicology.
Marine Mammals.
Marine Invertebrate Zoology.
Marine Climate Change.
Political Ecology.
Marine Conservation Service Learning.
Managing Ocean Noise.

**TRAVEL COURSES**
Tropical Marine Ecology (PANAMA – during fall break).

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**2019 SPRING JAN9-MAY3**
Coastal Watershed Science and Policy.
Biological Oceanography.
Introduction to Physical Oceanography.
Comparative Physiology of Marine Animals.
Marine Fisheries Policy.
Deep Sea Science and Environmental Management.
Conservation and Development.
Marine Protected Areas
Social Impact Analysis.
Sound in the Sea: Introduction to Marine Bioacoustics.

**TRAVEL COURSES**
Urban Tropical Ecology (Singapore)
Biology & Conservation of Sea Turtles (Puerto Rico)
Community Based Marine Conservation (Baja, Mexico)
Marine Conservation Biology (Hawaii).
Marine Ecology (Australia).
Additional travel costs apply.
*all students **grad students only

**HAWAII**
Marine Conservation Biology (Spring)
Instructors: Johnston + Read

**GULF OF CALIFORNIA**
Community-Based Marine Conservation in the Gulf of California // SS, STS, CCI (Spring) Instructor: Basurto

**PUERTO RICO**
Biology and Conservation of Sea Turtles // NS, STS (Spring) Instructor: Godfrey

**PANAMA**
Tropical Marine Ecology // NS, R (Fall) Instructor: Diaz
SINGAPORE*
Urban Tropical Ecology // NS, SS, STS, CCI (Spring)
Instructors: Rittschof + Schultz

AUSTRALIA*
Marine Ecology // NS, R, W (Spring)
Instructor: Silliman
OTHER OPPORTUNITIES

MARINE SCIENCE EDUCATION CONSORTIUM (MSEC)
The Marine Science Education Consortium (MSEC) was developed to provide a formal curriculum in the marine sciences, including supervised research, to member institutions. MSEC students may attend the Duke University Marine Lab during any academic term. There are currently 36 member institutions. Inquiries from interested institutions are welcome and should be addressed to the Director, Dr. Andy Read, at aread@duke.edu.

CORE BIOLOGY COURSES:
BIO 201 MOLECULAR BIOLOGY AND BIO 202 GENETICS & EVOLUTION
Complete these two biology gateway courses at the Duke University Marine Lab. A small class size and one-on-one attention from Dr. Tom Schultz helps create a successful and positive academic space. This supportive learning environment at the Duke University Marine Lab makes more challenging classes, such as these, approachable and manageable.

MARINE CONSERVATION SUMMER
Summer Term II features a suite of courses focused on marine conservation, policy and biology. This schedule allows students to customize their course load. Much of the learning for these courses takes place in the field. These summer courses are open to undergraduates, graduate students, and post-baccalaureates. 2019 will feature new course options.

MARINE SCIENCE & CONSERVATION DOCTORAL PROGRAM
The Ph.D. degree is offered through the Duke Graduate School via the Division of Marine Science and Conservation. Approximately five Ph.D. candidates are accepted each year. These students generally spend their first year in Durham and following years in Beaufort. Please contact Rachel LoPiccolo for more information at rachel.lopiccolo@duke.edu.
VISITING GROUPS
The Duke University Marine Lab welcomes visiting groups year-round and offers residential accommodations and dining, as well as classroom spaces and basic laboratory equipment. The lab can also accommodate receptions and symposia (up to 100 people).

PILKEY RESEARCH LABORATORY
The Pilkey Research Laboratory is the first research building to be added to the Marine Lab campus since the 1970s. In addition to research and office space for three faculty members, the Pilkey Lab includes a two-story ‘collisional commons’ where the Pivers Island community can meet and exchange ideas in an informal setting, a conference room, a classroom designed for courses that use molecular techniques, plus office space for graduate students, research staff and visiting faculty.

CANOES, KAYAKS, PADDLEBOARDS
Canoes, kayaks and paddleboards are available for use by all current Duke University Marine Lab students for recreation and research. Small boats and skiffs are available for use by graduate students and faculty for research.

BOATS + MARINE OPERATIONS
The **R/V Richard T. Barber** is a high-performance 30-foot aluminum vessel, certified to carry passengers inshore and offshore. This unique research boat is self-bailing, has deck space for 360° observation and equipment staging, a fully enclosed walk-around cabin and more. The **Kirby-Smith** is a 28-foot Carolina skiff, used to carry passangers for research + academic activities. The Kirby-Smith operates upon inshore waters and is well-suited to exploring shallow waters/ and marsh environments.

BEAUFORT LIFE
Students studying at the Duke University Marine Lab are right next to Beaufort, NC, ranked “America’s Coolest Small Town” in 2012. Established in 1709, Beaufort is the third-oldest town in NC and is a popular vacation destination for travelers and boating enthusiasts. A visitor to Beaufort will find plenty of ways to keep busy. Coastal waters are easy to access by kayak or canoe and Front Street boasts plenty of small shops and galleries. Fresh and local seafood is abundant. Marine Lab students can also borrow bicycles to explore the local area.
MARINE LAB DIRECTOR
ANDY READ
aread@duke.edu
Conservation biology of marine mammals, sea birds, sea turtles

STANBACK DEAN
TODDI STEELMAN
NICHOLAS SCHOOL OF THE ENVIRONMENT
DUKE UNIVERSITY
**MARINE LAB FACULTY**

**Academic and Research Faculty in Residence Year-Round**
Duke University Marine Lab faculty are dedicated and accessible – they are leaders in their fields and share their knowledge and passion with our students.

**XAVIER BASURTO**  
xavier.basurto@duke.edu  
Governance of marine resources and community-based conservation

**LISA CAMPBELL**  
lisa.m.campbell@duke.edu  
Human-environment relations and their implications for reconciling conservation and development

**RICHARD FORWARD**  
rforward@duke.edu  
Physiological ecology of marine invertebrates

**DAVID GILL**  
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Assessing marine conservation impacts and management

**JIM HENCH**  
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Shallow water physical oceanography

**DANA HUNT**  
dana.hunt@duke.edu  
Diversity and dynamics of marine bacteria

**ZACKARY JOHNSON**  
zij@duke.edu  
Biotechnology, ecology and biogeochemistry of marine phytoplankton (algae)

**DAVID JOHNSTON**  
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The effects of oceanography, climate variability and global change on marine mammals and their populations

**GRANT MURRAY**  
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Coastal communities and social ecological system dynamics.

**DOUGLAS NOWACEK**  
doug.nowacek@duke.edu  
Marine animal bioacoustics and the development of technology for marine conservation

**JOE RAMUS**  
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Estuarine and coastal ocean productivity

**DAN RITTSCHOF**  
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Environmental conservation, toxicology and biology; biological glues and marine communities

**TOM SCHULTZ**  
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Conservation genetics and genomes of marine organisms

**BRIAN SILLIMAN**  
brian.silliman@duke.edu  
Ecology and conservation of coastal ecosystems

**CINDY LEE VAN DOVER**  
c.vandover@duke.edu  
Exploration, ecology, and environmental management of the deep sea
MORE INFO
DUKE MARINELAB.NET

ENROLL AT THE MARINE LAB
ml_enrollment@nicholas.duke.edu or 252.504.7502

VISIT THE DUKE MARINE LAB
... As a Prospective Student?
nicholas.duke.edu/marinelab-tour
... As a School Group or Visiting Researcher?
Dominick Brugnolotti   drb1@duke.edu   252.504.7652

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Undergrad:
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gwendolyn.womble@duke.edu
252.504.7502

Katie Wood
katie.wood@duke.edu
252.504.7586
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LEADERSHIP CERTIFICATE
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Dr. Brian Silliman  brian.silliman@duke.edu  252.504.7635

SUSTAINABLE OCEANS ALLIANCE (SOA)
AT DUKE UNIVERSITY (STUDENT GROUP)
www.dukemscl.org

NSF RESEARCH EXPERIENCE FOR UNDERGRADS
Gwendy Womble  gwendolyn.womble@duke.edu  252.504.7502
Dr. Richard Forward  rforward@duke.edu  252.504.7610

LEARN MORE ABOUT
SUSTAINABLE OCEANS ALLIANCE (SOA)
AT DUKE UNIVERSITY (STUDENT GROUP)
www.dukemscl.org

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Rachel Lo Piccolo (Ph.D Coordinator)  rachel.lopiccolo@duke.edu

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