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 41 undergraduate courses spanning nearly all disciplines and majors.

Many undergrads, 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 and become one of them.
ACADEMIC TERMS

FALL SEMESTER 2017
AUG. 28 - DEC. 15
Fall semester at the Duke Marine Lab highlights fundamental marine science courses that are ideal for natural science, environmental science, and pre-health students. Fall semester features a dynamic and field-work heavy suite of classes as well as a Beaufort Signature Travel Course to Panama during a ten-day Fall Break.

SPRING SEMESTER 2018
JAN. 10 - MAY 4
Spring semester is geared towards the adventurous student who wants a true immersion experience. Many courses offer a significant travel component. Course selections highlight Beaufort Signature Travel Courses with extensive travel components to Puerto Rico, Singapore, the Gulf of California, St. John and Hawaii (Hawaii course is for grad students only).

SUMMER ACADEMIC TERMS

SUMMER TERM I 2018
MAY 14 - JUNE 15
The first summer term at the Duke Marine Lab is ideal for all undergraduate majors, particularly pre-health students. Students have the opportunity to participate in field-intensive courses, as well as Research Independent Study. Summer I courses include Marine Biology, Biology for Engineers, Molecular Biology, Physics I, Marine Invertebrate Zoology, Research Independent Study and more.

SUMMER TERM II 2018
JULY 9 - AUG. 10
Summer Term II features a new suite of courses focused on marine conservation, policy and biology. This newly structured schedule allows students to customize their course load, choosing either Conservation Biology & Policy or Drones in Marine Biology, Ecology & Conservation, in conjunction with one additional course (Marine Ecology, Marine Mammals or Biology & Conservation of Sea Turtles). Much of the learning for these courses takes place in the field. Other summer II courses include Physics or Research Independent Study.

2017-2018 FALL & SPRING TUITION*

<table>
<thead>
<tr>
<th>Tuition</th>
<th>$25,860 (per semester)</th>
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</thead>
<tbody>
<tr>
<td>Room and Board</td>
<td>$3,461 (double room)</td>
</tr>
<tr>
<td></td>
<td>or $4,604 (single room)</td>
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<tr>
<td></td>
<td>$4,155 (board)</td>
</tr>
<tr>
<td></td>
<td>and $280.46 (NC state tax)</td>
</tr>
<tr>
<td>Health Fee</td>
<td>$397 (per semester)</td>
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<tr>
<td>Activity Fee</td>
<td>$150 (per semester)</td>
</tr>
<tr>
<td>Transcript Fee</td>
<td>$40 (for non-Duke students)</td>
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</tbody>
</table>

* Tuition subject to change. Please check dukemarinelab.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.
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 ACES.

Not a Duke student? Not a problem! We 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. Forms are available on the Duke University Marine Lab website.

**CERTIFICATE PROGRAM:**

**MARINE SCIENCE AND CONSERVATION LEADERSHIP**

(DUKE UNDERGRADUATES ONLY)

The certificate in Marine Science and Conservation Leadership requires a residential component at the Duke Marine Lab and completion of six courses, including a capstone taken on the Durham campus.

**RESEARCH EXPERIENCE FOR UNDERGRADUATES**

This National Science Foundation REU program is a 10-week research program. Student research projects focus on marine genetics, coastal and estuarine processes, or marine sensory physiology, ecology and behavior. Application Deadline is February 15. Check the website for more information.

**ENROLLMENT FORM SUBMISSION DATES FOR NON-DUKE UNDERGRADUATES:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Term I</th>
<th>Summer Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR. 1</td>
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<td>DEC. 1</td>
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<tr>
<td>APR. 15</td>
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<td></td>
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<td></td>
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<tr>
<td>JUNE 15</td>
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</tbody>
</table>
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.”
UNDERGRADUATE COURSES

FALL 2017  AUG 28 - DEC 15

- Marine Climate Change. NS, EI, STS.
- Gateway to Biology: Genetics & Evolution. NS, STS.
- Marine Policy. EI, SS, STS.
- Data and Time Series Analysis. NS, QS.
- Biological Oceanography. NS, R.
- Gateway to Biology: Molecular Biology. 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.
- Coastal Marine Pollution. STS, NS.

TRAVEL COURSE

Tropical Marine Ecology (PANAMA - during fall break).

SPRING 2018  JAN 10 - MAY 4

- 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.
- Comparative Physiology of Marine Animals. NS, R, W.
- Gateway to Biology: Molecular Biology. NS, STS.

TRAVEL COURSES

see pg. 10 for more

Community-Based Marine Conservation (Baja).
- Marine Ecology (St. John).
- Biology & Conservation of Sea Turtles (Puerto Rico).
- Urban Tropical Ecology (Singapore).

SUMMER TERM I 2018  MAY 14 - JUNE 15

- Gateway to Biology: Molecular Biology. NS, STS.
- General Physics I. NS, QS.
- Research Independent Study. R.
- Marine Invertebrate Zoology. NS, STS.
- Introductory Biostatistics. QS, STS, R.
- Sensory Physiology of Marine Animals. NS, R, W.
+ New! Organic Chemistry. NS, STS.

SUMMER TERM II 2018  JULY 9 - AUG 10

- 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.
MEM 17, COASTAL ENVIRONMENTAL MANAGEMENT
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 coursework; the second year is typically spent at the Duke Marine Lab, where further coursework and a Masters Project are completed.

**GRADUATE COURSES**

**FALL 2017 AUG 28 - DEC 15**

- Marine Policy.
- Marine Ecology.
- Sensory Physiology of Marine Animals.
- Date & Time Series Analysis.
- Theory and Methods for Policy Analysis of the Commons.
- Biological Oceanography.
- Marine Mammals.
- Marine Invertebrate Zoology.
- Marine Climate Change.
- Marine Metapopulations.
- Coastal Marine Pollution.
- Managing Ocean Noise.

**TRAVEL COURSE**

- Tropical Marine Ecology (PANAMA - during ten-day fall break).

**SPRING 2018 JAN 10 - MAY 4**

- Coastal Watershed Science and Policy.
- Biological Oceanography.
- Introduction to Physical Oceanography.
- Comparative Physiology of Marine Animals.
- Marine Fisheries Policy.
- Conservation and Development.
- Social Impact Analysis.
- Sound in the Sea: Introduction to Marine Bioacoustics.

**TRAVEL COURSES**

- Additional Spring Travel Courses on pg 10.
- + Marine Conservation Biology (Hawaii).
TRAVEL COURSES

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

**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

**ST. JOHN**
Marine Ecology // NS, R, W (Spring)
Instructor: Silliman

**PANAMA**
Tropical Marine Ecology // NS, R (Fall)
Instructor: Diaz
**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.

**GATEWAYS TO BIOLOGY: 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 for many students. This supportive learning environment at the Duke University Marine Lab makes more difficult 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.

**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.
SUMMER TUITION SCHOLARSHIPS (SUMMER TERMS I & II)
APP DEADLINE: APR. 1
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.

BOOKHOUT RESEARCH SCHOLARSHIPS (SUMMER TERMS I & II)
APP DEADLINE: APR. 1
Scholarships are offered for students interested in research related to the invertebrate zoology of marine animals. Support includes a full Tuition Scholarship to take Research Independent Study during Summer Term I or II; students are responsible for room, board and fees. Research must involve some aspect of the biology of marine invertebrate animals.

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 seeks two Residential Advisors (RAs) 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.

* Duke financial aid is fully portable; talk with your Financial Aid Counselor about enrolling at the Duke Marine Lab!
VISITING GROUPS
The Duke University Marine Lab welcomes visiting groups year-round and offers dormitory accommodations and dining, as well as classroom spaces and basic laboratory equipment. The lab can also accommodate receptions and symposia (up to 100 people).

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 + SMALL BOATS
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.

R/V RICHARD T. BARBER
New to the lab in 2014, 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.

LIFE IN BEAUFORT
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: fresh and local seafood is abundant, coastal waters are easy to access by kayak or canoe and Front Street boasts plenty of small shops and galleries. Marine Lab students can also borrow lab bicycles to use in lieu of cars.
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

JIM HENCH
jim.hench@duke.edu
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
david.johnston@duke.edu
The effects of oceanography, climate variability and global change on marine mammals and their populations

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

JOE RAMUS
jramus@duke.edu
Estuarine and coastal ocean productivity

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

GRANT MURRAY
gdm1@duke.edu
Coastal communities and social ecological system dynamics.

DAN RITTSCHOF
ritt@duke.edu
Environmental conservation, toxicology and biology, biological glues and marine communities

TOM SCHULTZ
tom.schultz@duke.edu
Conservation genetics and genomes of marine organisms

MARINE LAB DIRECTOR
ANDY READ
aread@duke.edu
Conservation biology of marine mammals, sea birds, sea turtles
ENROLL AT THE MARINE LAB
ml_enrollment@nicholas.duke.edu or
252-504-7502

undergraduate students
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252-504-7586
Dr. Tom Schultz – tom.schultz@duke.edu or
252-504-7641

professional masters students
Dr. Grant Murray – grant.murray@duke.edu or
252-504-7683
Dr. Pat Halpin – phalpin@duke.edu or
919-613-8062

PhD students
Rachel Lo Piccolo – rachel.lopiccolo@duke.edu or 252-504-7585
Dr. Lisa Campbell – lisa.m.campbell@duke.edu or 252-504-7628

SCHOLARSHIPS
General: ml_enrollment@nicholas.duke.edu or 252-504-7502
Undergrad:
Katie Wood – katie.wood@duke.edu or 252-504-7586
Amy Kirkland – amy.kirkland@duke.edu or 252-504-7502

LEARN ABOUT THE MARINE SCIENCE & CONSERVATION LEADERSHIP CERTIFICATE AT DUKE UNIVERSITY
Katie Wood – katie.wood@duke.edu or 252-504-7586
Dr. Brian Silliman – brian.silliman@duke.edu or 252-504-7635

LEARN ABOUT THE MARINE SCIENCE & CONSERVATION LEADERSHIP STUDENT UNION AT DUKE UNIVERSITY
www.dukemscl.org

NSF RESEARCH EXPERIENCES FOR UNDERGRADUATES
Katie Wood – katie.wood@duke.edu or 252-504-7586
Dr. Richard Forward – rforward@duke.edu or 252-504-7610

MARINE SCIENCE EDUCATION CONSORTIUM
Andy Read – aread@duke.edu or * must be a university or college

VISIT THE DUKE MARINE LAB
... As a Prospective Student?
nicholas.duke.edu/marinelab-tour
... As a School Group or Visiting Researcher?
Dominick Brugnolotti – drbl@duke.edu or 252-504-7652

ANOTHER CONTACTS
ASSOCIATE DIRECTOR
Rebecca Smith
rebecca.s.smith@duke.edu

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katie.wood@duke.edu
Amy Kirkland (Enrollment, Registration)
amy.kirkland@duke.edu
Rachel Lo Piccolo (Ph.D Coordinator)
rachel.lopiccolo@duke.edu

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tom.schultz@duke.edu

CERTIFICATE DIRECTOR
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brian.silliman@duke.edu

DIRECTORS OF COASTAL ENVIRONMENTAL MANAGEMENT PROGRAM
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grant.murray@duke.edu
Dr. Pat Halpin
phalpin@duke.edu

DIRECTOR OF GRADUATE STUDIES
Dr. Lisa Campbell
lisa.m.campbell@duke.edu

DORMS AND DINING
Dominick Brugnolotti
drbl@duke.edu
This paper (Rolland Enviro® Print) contains 100% post-consumer fiber and manufactured using renewable biogas energy. It is certified FSC®, Processed Chlorine Free, Ancient Forest Friendly and ECOLOGO 2771. By using this environmentally friendly paper (as compared to products in the industry made with 100% virgin fiber), Duke Nicholas School of the Environment saved the following resources: 12 trees, 11,611 gallons of water, 1,188 lbs of waste, 3,903 lbs of CO₂, 19 MMBTU, and 5 lbs of NOₓ. The Life cycle assessment was made by Rolland and validated by a third-party.

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