



PhD Marine Science and Technology

A top-tier education. Every great scientific discovery begins with a propensity to deep dive into your subject matter.

Program Overview

The School for Marine Science & Technology's (SMAST) PhD in Marine Science and Technology program emphasizes societal need-driven research and learning in an interdisciplinary environment. As a student in the PhD program, you will conduct research focusing on observations, modeling, experimentation, and theory in the areas of ocean sciences, ocean technology, and marine policy.

Overview of Skills Developed

Students work independently and collaboratively with our faculty as well as with colleagues from other highly regarded institutions to pursue a range of leading-edge research projects. Topical areas include, but are not limited to the following:

- Biogeochemical Cycling
- Coastal Ecosystem Dynamics and Restoration
- Fisheries Science and Management
- Marine Renewable Energy
- Marine Environmental Science
- Ocean Computational Modeling

Highlights

- Program requires four core courses (12 credits) and an additional 24 credit hours of courses (including electives and seminars).
- Students are required to take a minimum of 18 credit hours toward their dissertation research.
- PhD students may be accepted as part-time students.
- Courses may be selected from those offered by any UMass campus, and other academic institutions subject to approval by the SMAST Dean.

At a Glance

The achievements of SMAST students include:

- Fulbright Fellowships
- Knauss Marine Policy Fellowships
- Nancy Sayles Day Foundation Research Award
- NOAA Sea Grant fellowship in Population and Ecosystem Dynamics and Marine Resource Economics

Awards for presentations at the following:

- American Fisheries Society
- American Institute of Fishery Research Biologists
- American Meteorological Society
- International Council for the Exploration of the Sea
- International Pectinid Workshop
- National Shellfisheries Association

Careers/Job Placement

SMAST alums have obtained careers in research, teaching, and project management in academia, private industry, and governmental agencies, including the following:

- Federal University of Ceará--Brazil, Global Foundation for Ocean Exploration
- Maine Department of Marine Resources
- Massachusetts Department of Environmental Protection
- Massachusetts Division of Marine Fisheries
- National Center for Atmospheric Research
- NOAA
- Office of Naval Research
- Rutgers University
- US Virgin Islands Center for Marine and Environmental Studies

Funding

The University of Massachusetts Dartmouth has several financial programs to assist degree-seeking, matriculated graduate students with the cost of advanced studies. Please contact your potential faculty advisor for assistance and make an effort to seek funding before applying.

Application Requirements

Successful applicants will have met the following criteria:

- An undergraduate or graduate degree with a GPA of 3.0 or higher
- An undergraduate major in one of the basic scientific disciplines or engineering, or strong multidisciplinary training
- At least six semesters of coursework in the natural sciences, generally to include biology, chemistry, and/or physics
- Preparation in mathematics through integral calculus is strongly encouraged

Apply

For complete details about our programs, or to apply online, please visit www.umassd.edu/smast.

Contact Us

Miles Sundermeyer, PhD
SMAST Graduate Programs Director
508.910.6550
asksmast@umassd.edu

SMAST, UMass Dartmouth
836 S. Rodney French Blvd.
New Bedford, MA 02744

umassd.edu/smast