Marine and Environmental Sciences

Website (http://www.northeastern.edu/mes/)

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The PhD in Marine and Environmental Sciences is designed to train high-caliber and independent scientists whose research addresses fundamental and applied ecological and evolutionary questions at local, regional, national, and global scales. This training will include both general and specialized coursework in ecology and evolution, geoscience, sustainability, and marine sciences, with curricular programs providing specialized options tailored to each student's research interests. Students benefit from top-notch research facilities at the Marine Science Center in Nahant and on the main campus in Boston. Graduates of the program are prepared for careers in academia, government agencies, and the private sector.

The PhD in Human Behavior and Sustainability Sciences is a joint program with the Department of Psychology. The program combines training in psychology with the ecological and geophysical sciences to produce boundary-breaking scholars who can accelerate sustainability solutions that are interdisciplinary and transformative. The proposed curriculum integrates degree requirements from existing PhD programs in psychology and marine and environmental sciences (sustainability sciences concentration), with the addition of a set of specialized core courses and integrated cross-disciplinary research training. It also allows students broad latitude in designing their specialty within the parameters of the program.

The Master of Science in Marine Biology, also known as the Three Seas Program, gives students an opportunity to learn in three world-renowned research facilities in New England, the Caribbean, and the Pacific Northwest. In addition to rigorous coursework, the program offers the opportunity for students to formulate research questions, design and conduct critical experiments, and interpret and present results. The 15-month program culminates with an internship in the field and independent research project.

The Master of Science in Environmental Science and Policy is a joint program between the College of Science and the College of Social Sciences and Humanities. The interdisciplinary program aims to prepare the next generation of environmental professionals for dynamic opportunities focused on the science and policy of sustainability and resilience.

The Master of Science in Climate Science and Engineering is offered jointly by the College of Engineering and the College of Science. The program provides training in the fundamental scientific processes that underpin the structure and dynamics of the climate, as well as the engineering strategies and technologies required for decarbonization and adaptation to climate change.

Programs

Doctor of Philosophy (PhD)

- Human Behavior and Sustainability Sciences (https://catalog.northeastern.edu/graduate/science/marine-environmental-sciences/human-behavior-sustainability-sciences-phd/) (Boston)
- Marine and Environmental Sciences (https://catalog.northeastern.edu/graduate/science/marine-environmental-sciences/marine-environmental-sciences-phd/) (Boston)

Master of Science (MS)

- Climate Science and Engineering (https://catalog.northeastern.edu/graduate/engineering/civil-environmental/climate-science-engineering-ms/) (Boston)
- Environmental Science and Policy (https://catalog.northeastern.edu/graduate/science/marine-environmental-sciences/environmental-science-policy-ms/) (Boston)
- Marine Biology (https://catalog.northeastern.edu/graduate/science/marine-environmental-sciences/marine-biology-three-seas-ms/) (Boston)

Graduate Certificate

- Sustainability Sciences (https://catalog.northeastern.edu/graduate/science/marine-environmental-sciences/sustainability-sciences-graduate-certificate/) (Boston)