

# MSc. in Marine Biology

## Program Description

For years, the sea has been a source of food and transport for commerce, but also a source of mystery about the processes that take place within it. The vast majority of the seas have not been studied – from the coastline to the abyssal depths, from the molecular mechanisms of life within the cell to the myriad, complex and dynamic marine ecosystems. The Eastern Mediterranean is a unique part of the global ocean. The City of Haifa as a harbor city nestled at the edge of this sea has become a center for researchers and a source of knowledge.

The International MSc. program in Marine Biology at the Leon H. Charney School of Marine Sciences, encompasses studies of marine life at multiple scales, from top predators to the genes and molecules underlying life in the oceans. The mission of the study program of the Department of Marine Biology is to provide students with the knowledge, conceptual and experimental skills, and experience to enable them to be productive marine scientists.

Graduate studies in the department include a research period (thesis) under the supervision of one of the department's researchers. Students combine research on a wide variety of marine organisms and questions with a diverse course offering, educational cruises, research dives and lab work.

The program is taught in English over two academic years and is a thesis-track only. Upon completion of the program, students will be awarded a Master of Science in Marine Biology.

## Highlighted Courses\*

Biogeochemical Oceanography

Marine Microbiology

Climate Change Biology

How Does the Eastern Mediterranean Work?

Nano-injectors in coral and jellyfish

Biology of Corals

\* The curriculum is subject to change without notice.

## Program Highlights

- Expose students to the biological and ecological processes of the rich and fascinating marine system, at multiple scales from microns to oceans.
- A broad acquaintance with the marine environment, emphasizing the Mediterranean Sea and the major challenges facing this important body of water.
- In-depth knowledge of major topics and processes in marine biology and biological oceanography at all scales, from genes through organisms to ecosystems.
- A high ability to plan, perform and analyze complex experiments in the lab and at sea, using state-of-the-art techniques and equipment.
- Experience in writing and presenting scientific data, as well as understanding of the processes required to apply scientific data outside of academia.

