

AQUACULTURE & AQUARIUM SCIENCE MINOR

Contact

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Mission

The mission of the School of Marine and Environmental Programs at the University of New England is to help our students gain an understanding of the natural world, develop critical thinking skills, and become scientifically literate. Together, we lay a foundation for lifelong learning and meaningful productive contributions to society.

The Marine Sciences encompass a wide variety of disciplines that seek to understand the way the ocean functions, how it is related to earth systems science, and how humans interact with the environment. Students will learn the theoretical underpinnings and applications of disciplines from biology to chemistry, geology, and physics. These disciplines are critical to life as we know it on the planet. Students will be able to apply these disciplines to solving real problems in ocean sciences and beyond.

Minor Description

The Aquaculture and Aquarium Sciences minor provides students the opportunity to develop analytical skills in biology and business, and technical skills in the culture and maintenance of marine and freshwater organisms. Students who successfully complete the program should satisfy employment needs in the fields of marine and freshwater aquaculture and in the educational, maintenance and design needs of local, regional and national aquarium museums and businesses.

Transfer Credit

See Undergraduate Admissions (<https://catalog.une.edu/undergraduate/admissions/>) for more information.

Admissions

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Financial Information

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more tuition and fee information, please consult this catalog's Financial Information (<https://catalog.une.edu/undergraduate/financial-information-undergraduate-programs/>) section.

Curricular Requirements

A minor requires six biology courses, including the Introductory Biology series. In particular, majors in a Biology or Marine Sciences program who wish to take an AQS minor must select four additional courses beyond those required for their major.

BIO 105 & 105L	Biology I: Ecology/Evolution and Bio I: Ecology/Evolution Lab	
MAR 105 & 105L	Ecology and Evolution of Marine Organisms and Eco/Evo of Mar Organisms Lab	
Select one of the following: ¹		4
BIO 106 & 106L	Biology II: Cellular/Molecular and Bio II: Cellular/Molecular Lab	
MAR 106 & 106L	Cellular and Molecular Biology of Marine Organisms and Cell/Molec Bio/Marine Orgs Lab	
MAR 221	Principles of Aquaculture	3
MAR 222 & 222L	Finfish/Shellfish Culture Tech and Finfish/Shellfish Culture Tech Lab	4
MAR 223 & 223L	Health, Nutrition, Feeding Cultured Organisms and Health, Nutrition, Feeding Cultured Organisms Lab	4
MAR 323 & 323L	Aquarium Science and Operations and Aquarium Science and Operations Lab	4
Total Hours		23

¹ BIO 104 / BIO 104L can fulfill one of these requirements. It cannot fulfill both.

Please note: While some courses can fulfill both core and program requirements, the credits earned do not count twice towards the minimum total required credits for the degree.

Learning Outcomes

- Students will demonstrate a strong content-knowledge foundation in their specific field of study.
- Students will communicate effectively in both oral and written format to convey their scientific knowledge, interdisciplinary training, and findings to peers, professional audiences, decision-makers, and/or the public.
- Students will demonstrate critical thinking and problem-solving skills in their specific field of study by designing, carrying out, and interpreting the results of their experiments by evaluating the literature published by professionals, by making recommendations to policy makers, and/or by creating and innovating in their field.

Code	Title	Hours
Program Required Courses		
Select one of the following: ¹		4