

# MARINE SCIENCE, PH.D.

---

## Learning Outcomes

- Students will formulate clear and testable research hypotheses.
- Students will communicate orally to demonstrate their ability to present scientific results clearly, logically, and critically. For PhD students a higher level of communication is expected relative to the MS.
- Students will communicate in writing to demonstrate their ability to present scientific results clearly, logically, and critically. For PhD students a higher level of communication efficiency and clarity is expected relative to the MS.
- Students will apply scientific methodology, quantitative problem-solving, and experimental techniques within the core areas of marine science. PhD students must demonstrate a more detailed proficiency with these skill in order to demonstrate an ability to conduct independent research.
- Students will demonstrate clear understanding of the four core areas of Marine Science (Biology, Chemistry, Geology, and Physics). Each core area is a subfield of science. The PhD student is expected to have a more detailed grasp of issues in these core areas as they affect the underlying research questions and methodologies.