

OCEAN SCIENCES



DIVE INTO AN
OCEAN DEGREE

dal.ca/studyoceansciences



**DALHOUSIE
UNIVERSITY**

FACULTY OF SCIENCE

WHY DO AN OCEAN SCIENCES DEGREE AT DALHOUSIE?

THE OCEAN IS OUR FUTURE.

The ocean defines our planet. It controls climate, feeds the planet, and connects peoples and economies around the world. To understand and sustain the ocean requires a new generation of scientists able and willing to explore multi-faceted and interconnected ocean processes.

By combining biology, chemistry, geology and physics, our Ocean Sciences degree will prepare this new generation of ocean scientists to address some of society's most exciting ocean opportunities and pressing environmental challenges. Students gain a broad perspective on the role of ocean sciences in policy and law, and they experience firsthand many of the exciting technological innovations that are transforming our ability to observe the ocean.

TOP 5 REASONS TO STUDY OCEAN SCIENCES AT DAL

- 1. Excellence** – Dalhousie is recognized worldwide for its interdisciplinary approach to ocean education.
- 2. Breadth** – Ocean Sciences combines biology, chemistry, geology and physics to develop an integrated understanding of ocean ecosystems.
- 3. Relevance** – The oceans are central to some of the most important societal challenges, including climate change, food security, and renewable energy.
- 4. Reach** – Ocean issues are international issues, bringing opportunities for students to study and work abroad.
- 5. Community** – A close-knit group of ocean students, faculty, and staff provides students with an academic home on campus.

GET YOUR FEET WET

With the help of academic advisors, students tailor their courses to emphasize their personal interests. Courses include:

The Blue Planet

In this popular second-year class, learn about the geological, chemical, physical and biological processes at work in the sea. Consider how humans impact the ocean, and dissect ocean stories covered in the media.

Conversations with Ocean Scientists

Satisfy your writing requirement at Dal by engaging with a variety of scientists from the vibrant oceans community centred in Halifax. Learn about fieldwork, data collection and research findings while exploring the many ways to communicate science to the world.

Tools and Concepts in Ocean Sciences

Scientists use technologies every day to monitor and explore the ocean. This course limits the lectures so you can gain hands-on experience with those technologies while working in small groups in a laboratory setting.

Introduction to Field Oceanography

Venture out to sea to really learn about the ocean. In this exciting and popular summer course, students collect samples at sea, analyze them in the lab, and work collaboratively to write group reports on the data.

DEGREE PROGRAM OPTIONS

- Bachelor of Science (BSc) Major - 120 credit hours
- BSc Double Major (Ocean Sciences + another subject) - 120 credit hours
- BSc Concentrated Honours - 120 credit hours
- BSc Combined Honours (Ocean Sciences + another subject) - 120 credit hours
- Minor - minimum 18 credit hours

OPPORTUNITIES AHEAD

Our graduates find employment in a variety of exciting fields:

- Oceanography
- Climate change
- Marine technology
- Renewable energy
- Marine management
- Ocean education
- Environmental law