



# BSc (Hons) **Marine Science**



Join the university on the beach  
to 'sea' the world differently

- Study at a top international research institute
- Friendly & personal atmosphere and small class sizes
- Diverse content embedding practical skills
- Spectacular coastal location and adventure lifestyle
- Opportunity to spend time studying in the high Arctic

This 4-year programme is Scotland's only marine science degree course, integrating the studies of marine biology, physical and chemical oceanography, and marine geology - leading to a rounded understanding of the marine system and preparing students for a range of exciting careers.

## Why study marine science?

The wellbeing of the global ocean matters: the marine environment influences our climate and atmosphere, is home to most of the life on our blue planet, and ocean resources such as food, energy, medicines and minerals are economic growth sectors. At the same time marine ecosystems are increasingly degraded and we need better management and conservation to retain the essential benefits the oceans bestow. Study marine science for a better future for the oceans.

## What will you learn?

The programme supports you to grow into a motivated, competent and employable graduate with a broad understanding of the marine system. You will master a range of fieldwork, laboratory and research skills and become a clear and professional science communicator. Most importantly you will learn to think independently and to base your arguments on the best evidence available. You will learn through lectures, tutorials, practicals, field-trips, projects, independent study and by immersion in the SAMS research and study culture.

## Opportunities to specialise

The marine science programme is exciting and broad. Those who want to specialise, however, can: If you enjoy physics, maths or technology you can study the Marine Science with Oceanography and Robotics stream. If you have a passion for adventure and the Arctic, want to spend up to a year at the University Centre in Svalbard and graduate with a BSc (Hons) Marine Science with Arctic Studies, join us.

## Who will be my lecturers and which uni will my degree come from?

The BSc (Hons) Marine Science is taught by world-leading researchers from Scotland's oldest and largest independent marine science research organisation, the Scottish Association for Marine Science (SAMS). Only about 170 students work towards undergraduate, Masters and PhD awards at SAMS, which allows you access to teaching staff and to immerse yourself in a research culture. The degree is administered and awarded by the University of the Highlands and Islands.

## Location, location, location

SAMS was recently named one of the most beautiful campuses in the world. Located three miles outside the picturesque Scottish west coast town of Oban and adjacent to a 13th century castle, SAMS' high-tech campus is surrounded on three sides by water, encouraging students to literally immerse themselves in the marine environment! In leisure time, the area is ideal for outdoor pursuits with easy access to diving, sailing, kayaking, skiing, mountain biking, walking and climbing.

## Entry requirements

We welcome applicants with school leaver, college and international qualifications. Standard requirements are Scottish Highers (BBB) or A-Levels (BCC) including two science subjects. You should have studied Maths and English to Standard Grade/National 5/GCSE or beyond. We also welcome applicants with other suitable qualifications (eg International Baccalaureate Diploma) and may accept students with advanced qualifications or experience into higher years. Please contact us to discuss your circumstances.

**UCAS code H49; course code F710**

### Year 1

- \* Fundamentals of Marine Biology
- \* Fundamentals of Marine Chemistry
- \* Fundamentals of Marine Geology
- \* Fundamentals of Marine Physics
- \* Mathematics & Statistics
- \* Marine Field Course

### Year 2

- \* Chemical Oceanography
  - \* Marine Biology
  - \* Marine Geology
  - \* Physical Oceanography
  - \* Statistics & Experimental Design
- Optional (choose one):**
- \* Advanced Maths & Programming
  - \* Biochemistry & Molecular Biology
  - \* Marine Resources

### Year 3

- \* Literature Review
- Optional (choose five):**
- \* Marine Biogeochemical Cycling
  - \* Marine Biotechnology
  - \* Marine Conservation
  - \* Marine Instrumentation & Data
  - \* Marine Microbial Ecology
  - \* Marine Pollution
  - \* Marine Robotics
  - \* Marine Zoology
  - \* Ocean Circulation & Climate

### Year 4

- \* Dissertation (double module)
- Optional (choose four):**
- \* Aquaculture
  - \* Behaviour & Biological Clocks
  - \* Coastal Shelf Sea Dynamics
  - \* Deep Sea Ecosystems
  - \* Defining the Marine Carbon Cycle
  - \* Fisheries Ecology
  - \* Marine Environmental Impact Assessment
  - \* Marine Modelling
  - \* Polar Seas