MARINE & OCEAN

The clear waters and diverse coastline of Devon and Cornwall provide an unrivalled location for marine and ocean study. Our courses are underpinned by access to a fully equipped fleet of boats incorporating state-of-the-art equipment, instrumentation and software based at our Marine Station – just 15 minutes’ walk from the main campus – with waterfront classrooms, laboratories, seawater aquaria and dive training facilities. Plymouth has been at the forefront of marine education and research for over 150 years. Today, it boasts one of the largest concentrations of marine scientists and professionals in Europe, providing tremendous opportunities for advanced study, research and work experience.

Want to find out more about our courses?
Book now for one of our open days: www.plymouth.ac.uk/opendays

70.3% OF STUDENTS IN OUR SUBJECT AREA ACHIEVE FIRST OR UPPER SECOND CLASS HONOURS DEGREES.
“I was very interested to talk to the students and see their work on issues very much at the heart of the work I try to do with my foundation. The Marine Station can only enhance the scope and prestige of the University. I’m very happy to be part of it.”

HSH Prince Albert II of Monaco (who holds an Honorary Doctorate of Science from Plymouth University, and whose Monaco Foundation supports research into protecting the environment)
Course overview:
You’ll study two sciences from biology, chemistry, physics and environmental science/geology.

There’ll be around five hours of teaching contact time weekly per subject, with an emphasis on practical work. Two hours of maths are complemented by the SUM:UP drop-in centre to provide extra support and help. There are two hours per week of study in higher education, a module to help you get the best from your university time. In the second half of the year, you’ll study issues in a chosen area of science.

During this course, you’ll benefit from being taught at University by enthusiastic and supportive teaching staff with substantial experience in helping students to realise their potential. Upon successful completion of the Extended Science, you’ll progress on to your chosen science course (see ‘progression’ on our website for more detailed information about available degrees). Some degree courses require enhanced grades for progression and further checks for those wishing to study health-related courses.

Entry requirements:
32 points at A level to include a science subject, for example Biology, Chemistry, Physics, Earth, Geology or Maths. GCSE: Grade C or above in Maths and English Language. For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
Former students are now working in the private and public sectors, for example education, the Civil Service, the Environment Agency, scientific research, consultancies, and the chemical, life science, marine and shipping industries. Many students have embarked upon a scientific career or are in graduate jobs outside of science. We have helped over 2,500 graduates who would not otherwise have been able to enter university.
BSc (Hons) MARINE BIOLOGY

Study the diversity of marine life using cutting-edge techniques in the lab and in the wild, with access to the varied Devon and Cornwall coastline. A recent World Wide Fund for Nature (WWF) report highlighted the South Devon coast – which can be reached on foot from campus – as the area of highest marine biodiversity in the UK.

Year 1:
Get to grips with key biological and oceanographic themes, with topics ranging from biodiversity and ecosystems to evolution and microbiology. Through a mixture of lectures, small group tutorials, and laboratory and fieldwork, you'll begin to acquire skills that will boost your employability and help your career development. You'll benefit from a residential field course abroad, to introduce you to the processes of scientific investigation, data collection and analysis.

Year 2:
Sharpen your practical skills on the South Devon coastline, just minutes away. We'll introduce you to methods of collecting, handling and analysing scientific data, as well as engaging with the biology of marine organisms and the ecology of shallow-water marine habitats. Learn how to ask and answer research questions, and how marine biology research gets funded in the UK with a unique role-play event. Depending on your choice of modules, you can receive training in underwater sampling. Explore experimental methods during a field course that currently takes place in Portugal.

Placement year (optional):
There is the opportunity for you to arrange a work placement for a six- or 12-month period.

Final year:
Focus on your chosen areas of interest. You'll conduct an extensive personal research project, applying the skills and methods you've learned. You'll also choose from a range of modules that are driven by the research interests of our staff, giving you the opportunity to specialise and tailor your work towards your career goals, while studying at the cutting edge of marine biology.

Special features:
- Access our research vessels, £5 million Marine Station, specialist labs and seawater aquarium – all a short walk from the main campus.
- Access LABplus – a unique open-access laboratory and resource centre designed for students studying science and engineering courses. Flexible workspace, specialist software, and access to microscopes, cameras and bespoke resources.
- Gain extra experience volunteering with University staff, or in one of the other marine research organisations located in Plymouth.
- Increase your knowledge and apply your skills in an international setting, with two residential field courses abroad (France and Portugal) that give you the chance to study organisms not found in UK waters.
- Take the HSE Professional SCUBA commercial diver qualification (diving background needed). Note: limited places and additional costs apply.

Entry requirements:
ABB at A level to include Biology and a second science: Maths, Physics, Chemistry, Environmental Science/Studies, Psychology, Geography or Geology.
136 points/AAB at A level to include grade A in Biology if no second science.
GCSE: 128 points/grade C or above in Maths and English Language.
For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
Our graduates are employed in a wide range of related career pathways including environmental monitoring, pollution control, conservation, aquaculture, and fisheries management, and in teaching and research activities at all levels.

UCAS course code
C161
Duration
3 years (+ optional placement)
Location
Plymouth. Please see our website for further details on placements and study trip locations
Institution code:
P60
Course type
Full time
Fees
For details about fees please refer to page 24

Utilise our new Marine Station, a new landmark £5 million development.

ATTEND OUR OPEN DAYS FOR EVEN MORE INFORMATION

admissions@plymouth.ac.uk  +44 1752 585858  www.plymouth.ac.uk/courses
Whilst studying at Plymouth I met some world-class scientists who really inspired me. A lecturer once said, look around you as these people will be your colleagues and peers of the future – although hard to imagine at the time, he wasn’t wrong as I often work with or see ex-course students at conferences and meetings.

Since graduating, I have undertaken various different roles and study opportunities, both in the UK and abroad. I gained a job as a Science Officer for Coral Cay Conservation in Tobago and have undertaken further thesis research in Thailand. I’ve even appeared in an episode of BBC’s *Countryfile* – surely any British environmentalist’s dream?

I currently work for Westcountry Rivers and regularly work with Plymouth University academics and students on research projects and placements. It makes me quite proud to revisit the University for meetings, but now as a working scientist.

**Olivia Durkin**  
Marine Biology graduate and Freshwater Fisheries Officer for Westcountry Rivers
BSc (Hons) MARINE BIOLOGY AND COASTAL ECOLOGY

This world-leading degree challenges you to ask why animals live where they do, why coral reefs are so diverse, how to conserve our increasingly threatened marine life, and more. You’ll access some of Europe’s best marine facilities and develop your skills on coasts packed with biodiversity, while benefiting from our reputation as an international centre for marine and environmental research.

**Year 1:**
We’ll introduce you to marine biology, ecology and key biological themes, with topics from biodiversity and ecosystems to evolution and animal behaviour. Via lectures, small group tutorials, lab and field work, you’ll begin to acquire skills that will boost your employability and help your career development. You’ll also benefit from hands-on experience on the Devon coastline and an overseas residential field course, exposing you to different marine organisms and developing your scientific skills.

**Year 2:**
Sharpen your practical skills on the South Devon coastline, just minutes away. We’ll introduce you to methods of collecting, handling and analysing scientific data, understanding ecological theories, applying these to shallow-water marine habitats, and getting to grips with the major threats faced by aquatic habitats worldwide. You’ll gain a deeper understanding of what shapes marine and coastal biodiversity through a residential field course, currently held in South Africa.

**Placement year (optional):**
There is the opportunity for you to arrange a work placement for a six- or 12-month period. By applying the skills you’ve learned in a professional environment, you’ll gain additional experience while making a host of contacts – potentially useful when it comes to finding your first job.

**Final year:**
Focus on your chosen areas of interest, building your own specialisms and skills. You’ll conduct an extensive personal research project, applying the skills and methods you’ve learned. Choose from a range of modules that are driven by the active research interests of our staff, giving you the opportunity to specialise and tailor your work towards your career goals, while studying at the cutting edge of the field. Contribute to research and advances – some students see their results published in the scientific literature.

**Entry requirements:**
ABB at A level to include Biology and a second science: Maths, Chemistry, Environment Science/Studies, Psychology, Geography or Geology.
AAB at A level to include grade A in Biology if no second science.
GCSE: Grade C or above in Maths and English Language.

**Career opportunities:**
This degree course provides skills and experience relevant to a wide range of careers. Some graduates go on to conduct research, while others are employed in fields such as environmental consultancy, monitoring, resource management and education. The cross-system approach and practical flavour of the course will be suitable for those interested in pursuing employment in conservation and environmental organisations worldwide.
BSc (Hons) MARINE BIOLOGY WITH FOUNDATION YEAR

Do you have a passion to study marine biology, but lack the normal entry requirements for direct admission to one of our honours degrees? Perhaps you have shown evidence of good academic potential, but don’t have sufficient qualifications in science subjects or have been out of formal education for a while. This new four year degree route incorporates a foundation year, which is incorporated into our established Extended Science course. ‘Year zero’ will give you the study skills and scientific underpinning to continue the remainder of the course with confidence. We encourage students of all ages and backgrounds to apply.

Course overview:
In semester one, you’ll take a module in study and mathematical skills for life sciences. This will prepare you to get the most from your University studies and is supported by academic tutorials from the marine biology subject staff. Maths tuition is complemented by the SUM-in drop-in centre to provide extra support and help. There is a core biology module in each semester, which is combined with a specialist module in semester two. Your optional modules are chosen from chemistry, physics, or maths and statistics.

Subject to achieving the specified pass marks for progression, you’ll continue your studies in one of the suite of related degrees – Marine Biology, Marine Biology and Oceanography or Marine Biology and Coastal Ecology. Through the tutorials and discussions we’ll help to guide you to the most appropriate route to meet your interests in the different aspects of the subject area.

Special features:
- Apply through UCAS and receive funding in the same way as an honours degree course.
- Experience the leading UK university ‘year zero’ course, with over 25 years of success in producing excellent degree students and pass rates for the course in excess of 85%.
- In ‘year zero’, you will be taught at the University by the same academic team as our normal degree courses and will gain the understanding and confidence needed for your future studies.

Entry requirements:
100–116 points from a minimum of two A levels including Biology and a second science subject (applicants may be required to attend and interview). Other qualifications and professional experience will be considered; admission will normally be dependent on an interview, and applicants will need to provide suitable evidence of relevant interests or experience appropriate to marine biology.

GCSE: Grade C or above in Maths and English Language.
For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
After progression, your career opportunities are the same as those students on the degree courses. Graduates are employed in a wide range of career pathways including environmental monitoring, pollution control, conservation, aquaculture and fisheries management, and in teaching and research at all levels. Former Extended Science students rank among our highest-achieving and most successful graduates, with many occupying senior scientific positions throughout the world.

Successful completion of our foundation year entitles you to progress to the first year of our Marine Biology degree courses.
BSc (Hons) MARINE BIOLOGY AND OCEANOGRAPHY

Around 70% of our planet is ocean. To understand the biology of this vast area, we must also understand the oceans. You’ll study the biology and ecology of the marine realm with a focus on offshore and deep-sea ecosystems, and the physical and chemical processes that shape them. Teaching uses both small and large research vessels, giving you an unrivalled experience of open-ocean marine biology.

Year 1:
Explore key biological and oceanographic themes, with topics ranging from biodiversity and ecosystems to evolution and microbiology. Through a mixture of lectures, small group tutorials, laboratory and field work, you’ll begin to acquire skills that will boost your employability and help your career development. You’ll also benefit from a residential field course in France, introducing you to the processes of scientific investigation, data collection and analysis.

Year 2:
Develop a deeper understanding of the biology and ecology of marine organisms and chemical and biological oceanography. We’ll give you hands-on, practical training in marine survey, underwater sampling and species identification – skills that you’ll hone during the field course in Sweden, where you’ll undertake field research in deep water from an ocean-going research vessel.

Placement year (optional):
There is the opportunity for you to arrange a work placement for a six- or 12-month period.

Final year:
Focus on your chosen areas of interest. You’ll conduct an extensive personal research project, applying the skills and methods you’ve learned. You’ll also choose from a range of modules driven by the research interests of our staff, giving you the opportunity to specialise and tailor your work towards your career goals, while studying at the cutting edge of marine biology.

Entry requirements:
ABB at A level to include Biology and a second science: Maths, Physics, Chemistry, Environmental Science/Studies, Psychology, Geography or Geology.
AAB at A level to include grade A in Biology if no second science.
GCSE: Grade C or above in Maths and English Language.
For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
You’ll develop the necessary skills for a career in a range of science-based areas including research, environmental consultancy, marine monitoring and environmental management. These skills are also transferable to careers in teaching, management and administration.

UCAS course code
CF17
Duration
3 years (+ optional placement)
Location
Plymouth. Please see our website for further details on placements and study trip locations
Institution code
P60
Course type
Full time
Fees
For details about fees please refer to page 24

100% student satisfaction according to the National Student Survey.

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admissions@plymouth.ac.uk +44 1752 585858 www.plymouth.ac.uk/courses
Set yourself up for success in marine sciences. This year-long foundation course covers marine science, applied maths and study skills with optional modules in biology, chemistry and physics. Passing this 'year zero' ensures progression into year one of our Ocean Science and Marine Conservation, Ocean Exploration and Surveying, Oceanography and Coastal Processes, and Ocean Exploration and Surveying degrees. Great if your current qualifications don’t allow you direct entry to degree level or if you have been out of formal education for some time.

Course overview:
Taught by University lecturers on campus, you’ll be part of Plymouth University from day one. You’ll study six modules over the year, with compulsory modules in marine science and mathematical skills as well as optional modules in biology, chemistry, physics, maths and statistics. The course is designed to help you progress on to one of our marine sciences degrees. You’ll be taught for about 17 hours per week and be expected to put in about the same amount of time in independent study.

Progression:
• Successful completion of the foundation year entitles you to progress to year one of our marine sciences degrees.
• Many students have chosen this route and have successfully graduated and found employment or gone on to postgraduate study.
• Being taught by the University, at the University, means you are very well prepared for degree-level study.

For more information on our range of maritime sciences degrees, see:
• BSc (Hons) Ocean Science and Marine Conservation – page 242
• BSc (Hons) Ocean Exploration and Surveying – page 240
• BSc (Hons) Oceanography and Coastal Processes – page 243.
BSc (Hons) NAVIGATION AND MARITIME SCIENCE

This exciting honours degree will set you on course for a successful career as a maritime professional in the global maritime sector. You could opt to follow a three-year course designed for students wishing to pursue a career in shore-based maritime management, or follow an accredited four-year course that includes a year working at sea, and gain internationally recognised qualifications for professional seafarers in the Merchant Navy, yachting or superyacht industries.

Year 1:
Engage with the foundations of marine operations, meteorology and navigation techniques, including use of our ship simulator and sail training vessel. You’ll also develop your navigation, leadership and management skills in a challenging field week that’s essential for future maritime leaders. Sponsored students will spend the summer of this year at sea.

Year 2:
Advance your navigation skills and learn about position determination (including celestial navigation), ship construction, stability and cargo operations, as well as getting to grips with the latest satellite position and timing systems. A sailing-based field week helps you put your navigation, leadership and management skills into practice, contextualising your theoretical work. You’ll also have the opportunity to undertake RYA qualifications, including Yachtmaster Offshore.

Seatime (optional):
This year is the chance to go to sea. If you’re a sponsored student, you’ll follow a structured programme with your sponsoring company; alternatively, yachtsmen and women can build miles and gain valuable industrial experience. Put your newly acquired skills to the test on a real ship or yacht, and learn from the experience of those around you. This year is optional: if you’re already qualified or are progressing to a shore-based management career, you can go straight to the final year.

Final year:
Refine the skills necessary for a career in the maritime sector, and gain experience managing operations and solving complex problems that you’ll encounter in the workplace. Round off what you’ve learnt this year by studying advanced topics around navigation management, and complete a year-long research project on a topic of your choice. You’ll also have the opportunity to develop, run and present at a conference attended by key industrial players.

Special features:
- Distinguish yourself with a degree that’s accredited by the Maritime and Coastguard Agency and the Merchant Navy Training Board.
- Immerse yourself in the latest technology; our Marine Navigation Centre has an advanced full-mission ship simulator and the latest in electronic charts.
- Gain hands-on experience by learning to navigate our dedicated 13m sail and navigation training vessel, Take The Helm, on Plymouth Sound. Once qualified and approved, you’ll be able to skipper her yourself.

Entry requirements:
80–112 points at A level to include a grade C in either: Biology, Chemistry, Maths, Geology, Physics, Geography, Applied Science, Engineering, Design Technology, Environmental Science/Studies or Psychology.
GCSE: Grade C or above in Maths and English Language. For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
The degree is designed for students who wish to follow a career in the marine industry at sea as a Merchant Navy deck officer or as a professional yachtsman/woman. Alternatively, the degree will prepare you well to seek employment in shore-based roles such as port operations, marine surveying, underwriting or one of the many associated industries that support commercial shipping and professional sailing.

Professional accreditation:
Accredited by the Maritime and Coastguard Agency and the Merchant Navy Training Board.

UCAS course code J616
Institution code P60
Duration 3 years (+ optional seagoing experience)
Course type Full time
Location Plymouth. Please see our website for further details on placements and study trip locations
Fees For details about fees please refer to page 24

Accredited by the Maritime and Coastguard Agency and the Merchant Navy Training Board.
FdSc NAVIGATION AND MARITIME SCIENCE

This exciting degree will set you on course for a successful career as a maritime professional in the global maritime sector. Opt to follow a two-year course designed for those wishing to pursue a career in shore-based maritime management, or follow an accredited three-year course that includes a year working at sea, and gain internationally recognised qualifications for professional seafarers in the Merchant Navy, yachting or superyacht industries.

Year 1:
Engage with the foundations of navigation, gaining a detailed knowledge of position-fixing, coastal navigation and collision avoidance in our advanced full-mission ship simulator and yacht. You’ll also develop your navigation, leadership and management skills in a challenging field week on Dartmoor, helping you to examine, understand and develop your own abilities – and those of the team around you. Sponsored students will receive help with tuition fees and living expenses and will spend the second part of this year at sea, as a trainee officer cadet.

Year 2:
Advance your navigation skills, learn about position determination, including astro-navigation, as well as ship construction, stability and cargo operation, and understand the latest satellite position and timing systems. Develop the practical, communication and problem-solving skills employers are looking for. A sailing-based field week puts your navigation, leadership and management skills into practice, contextualising your theoretical work. Take the chance to gain RYA qualifications, including Yachtmaster Offshore.

Seatime (optional):
Following year 2, you may choose to spend a year at sea developing additional skills and gaining the experience required for professional qualifications.

Special features:
• Gain hands-on experience by learning to navigate our 13m sail and navigation training vessel, Take The Helm, as part of your first-year studies. Once qualified and approved, you’ll be able to skipper her yourself.
• Gain the Certificate of Competency over three years rather than four.
• Progress on to the BSc (Hons) Navigation and Maritime Science on successful completion of the course.
• Accredited by the Maritime and Coastguard Agency and the Merchant Navy Training Board.
• Sponsorship is not required to complete the degree.

Entry requirements:
48 points from a minimum of two A levels to include a grade E at either: Biology, Human Biology, Chemistry, Maths, Geology, Physics, Geography, Applied Science, Engineering, Design Technology, Environmental Science/Studies or Psychology.
GCSE: Grade C or above in Maths and English Language.
Other: Medical and sponsorship required from own national fleet subject to Maritime Coastguard Agency (MCA) approval. For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
The degree is designed for those who wish to follow a career in the marine industry at sea as a Merchant Navy deck officer or as a professional yachtsman/woman. Alternatively the degree will prepare you well to seek employment in shore-based roles such as port operations, marine surveying, underwriting or one of the many associated industries that support commercial shipping and professional sailing.

Professional accreditation:
Accredited by the Maritime and Coastguard Agency and the Merchant Navy Training Board.

UCAS course code
J617
Duration
2 years (+ optional seagoing experience)
Location
Plymouth. Please see our website for further details on placements and study trip locations

Institution code
P60
Course type
Full time
Fees
For details about fees please refer to page 24

Distinguish yourself with a degree that’s accredited by the Maritime and Coastguard Agency, as well as the Merchant Navy Training Board.
HSE SCUBA CERTIFICATION

Plymouth University is unique in offering its students the opportunity to gain the HSE SCUBA certification and undertake academic diving.

The intensive four-week summer courses are accredited by the HSE and delivered by experienced instructors. Qualified students can develop scientific diving skills via an optional module and then dive in support of their own academic or wider research projects (with the National Marine Aquarium or the Marine Biological Association, among others).

ATTEND OUR OPEN DAYS FOR EVEN MORE INFORMATION

✉️ admissions@plymouth.ac.uk  📞 +44 (0)1752 585858
BSc (Hons) OCEAN EXPLORATION AND SURVEYING

Are you looking for a career in the hydrographic surveying and marine exploration industries? On this course you’ll explore offshore and environmental surveying, marine remote sensing, oceanography, underwater acoustics, digital mapping and geographical information systems.

A focus on the practical application of survey technology to the marine environment will give you highly sought after skills in hydrographic surveying, mapping, measurement and visualisation of the seafloor and underlying geology.

Year 1:
Year 1, shared across the Marine Science Undergraduate Scheme, introduces the full range of topics within the degree and develops your underpinning scientific knowledge and practical skills. You’ll develop your understanding of the Earth’s oceans and the key physical, chemical and biological processes that occur in these systems. You’ll build practical skills and enhance your ability to analyse, present and interpret scientific data through field-based activities.

Year 2:
Year 2 introduces specialist technology used offshore, including computerised mapping and analysis software. You’ll cover marine positioning topics as well as developing an understanding of the physical coastal environment. The application of acoustics to measurement underwater provides a strong scientific background to the use of sonar and related remote sensing and surveying methods. You’ll also be able to broaden your studies by taking an optional module in meteorology, remote sensing or scientific diving (for suitably qualified individuals).

Final year:
The final-year modules focus on hydrographic surveying in coastal and offshore environments, including surveying for ports, construction and exploration for hydrocarbons and minerals. You’ll participate in a residential field course to utilise and further develop your practical skills and be able to broaden your studies to include an option module, for example in marine pollution, marine policy and planning or coastal processes. A significant part of the year is spent completing a research project, carrying out your own in-depth investigation, potentially involving practical work, under the guidance of a member of academic staff.

Entry requirements:
12 points from a minimum of two A levels to include a grade C in Environmental Science, Geography or Geology or 104 points from a minimum of two A levels to include grade C in Biology, Chemistry, Maths or Physics.
GCSE: Grade C or above in Maths.

For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Entry requirements:
112 points from a minimum of two A levels to include a grade C in Environmental Science, Geography or Geology or 104 points from a minimum of two A levels to include grade C in Biology, Chemistry, Maths or Physics.
GCSE: Grade C or above in Maths.

For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
Graduates are sought after by companies operating worldwide in areas such as the offshore hydrocarbon industry and near-shore environmental survey work. You’ll be well positioned to enter a wide range of related roles in the marine science sector. Your skills and knowledge will also open the door to more general graduate opportunities such as teaching, engineering and management.

UCAS course code Institution code
F731 P60
Duration Course type
3 years Full time
Location Fees
Plymouth For details about fees please refer to page 24

Gain the HSE Professional SCUBA qualification alongside your course (additional costs apply).

Special features:
• Experience extensive vocational elements with an emphasis on hands-on experience using current hydrographic and surveying methods and state-of-the-art technology as used by the survey industry.
• Benefit from strong industry links and excellent home and overseas employment prospects.
• Develop your range of practical skills with our own fully equipped fleet of boats, a new £5 million Marine Station used as a base for fieldwork afloat, industry-standard oceanographic and surveying equipment, and a type-approved ship simulator.
• Option to take the industry-recognised professional diving qualification (HSE Professional SCUBA) and RYA power boat certificates alongside your degree and an optional dedicated scientific diving module to provide training and qualification for diving-based research projects and employment (limited places and additional costs apply).
• An overseas field course integrates your surveying and mapping knowledge and understanding across the different sub-disciplines to address real-world issues.
MSci (Hons) OCEAN SCIENCE

Ocean science plays an important role in some of the world’s most pressing environmental, energy and construction challenges. This degree allows you to tailor your study towards future employment in a specific sector including oceanographic and environmental research and consultancy, marine renewable energy, marine conservation management, offshore exploration and hydrographic surveying.

Year 1:
Year 1, shared across the Marine Science Undergraduate Scheme, introduces the full range of topics within the degree and develops your underpinning scientific knowledge and practical skills. You'll develop your understanding of the Earth’s oceans and the key physical, chemical and biological processes that occur in these systems. You'll build practical skills and enhance your ability to analyse, present and interpret scientific data through field-based activities.

Year 2:
Emphasis is on understanding core aspects of ocean science, including topics in ocean exploration, oceanography and marine conservation, and enhancing your practical and research skills. You'll participate in a fieldwork module based at our Marine Station, learning how to use industry-standard instrumentation and software for measuring a variety of parameters in the coastal zone, and you'll develop a proposal for your final-year project. There’s also opportunity to apply scientific diving skills gained alongside the degree for suitably qualified individuals.

Year 3:
Focus on topics with special relevance to your future plans, including options across the Marine Science Undergraduate Scheme (BSc (Hons) Ocean Exploration and Surveying, BSc (Hons) Ocean Science and Marine Conservation, BSc (Hons) Oceanography and Coastal Processes). A residential field course allows you to develop a group-based in-situ investigative study. You’ll complete a research project under the guidance of a member of academic staff.

Final year:
Pathway options provide an opportunity to pursue your choice of topic in greater depth and to increase the breadth of your study through modules from the applied contemporary offerings of our Marine Science MSc programmes: Applied Marine Science/Marine Renewable Energy and Hydrography. You’ll conduct a research or consultancy-type project closely linked to one of our internationally leading marine science research groups or industrial partners, providing an experience of working with established marine scientists.

Special features:
- Gain a sound knowledge base across all areas of ocean science with options including coastal dynamics, seafloor mapping, physical oceanography, meteorology, remote sensing, offshore exploration, biological oceanography, marine pollution and conservation.
- Selection of the hydrography pathway in the final year (with potential high-level professional FIG/IHO/ICA accreditation) equips you for employment in offshore exploration and marine surveying.
- Work with established marine scientists on a research or consultancy-type project closely linked to one of our marine science research groups or industrial partners.
- Develop your range of practical skills with our own fully equipped fleet of boats, a new £5 million Marine Station used as a base for fieldwork afloat, and industry-standard oceanographic and surveying equipment.
- Option to take the industry-recognised professional diving qualification (HSE Professional SCUBA) and RYA power boat certificates alongside your degree and an optional scientific diving module to provide training and qualification for diving-based research projects and employment (limited places and additional costs apply).
- An overseas field course integrates your ocean science knowledge with real-world issues.

Entry requirements:
120 from a minimum of two A levels to include at least 32 points (grade C) in a science-related subject: Biology, Chemistry, Environmental Science, Geography, Geology, Maths or Physics.
GCSE: Grade C or above in Maths and English Language. For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

Career opportunities:
There is a plethora of pathways to take following this course. Graduates are employed throughout the marine science sector in areas such as coastal management, conservation, marine renewable energy, the offshore industry, oceanographic consultancy, hydrographic surveying and research.

Overall, 97% of students were satisfied with the quality of the course.
BSc (Hons) OCEAN SCIENCE AND MARINE CONSERVATION

Do you have a passion to understand and protect life in our seas? This course offers an integrated approach to understanding the oceanographic processes that support life in our oceans, how marine ecosystems function and how our marine activities can be managed sustainably.

You’ll learn about the policy structures designed to protect marine ecosystems and our oceans, and be primed with the skills and enthusiasm to confidently start a job in marine conservation management and scientific research.

**Year 1:**
Year 1, shared across the Marine Science Undergraduate Scheme, introduces the full range of topics within the degree and develops your underpinning scientific knowledge and practical skills. You’ll develop your understanding of the Earth’s oceans and the key physical, chemical and biological processes that occur in these systems. You’ll build practical skills and enhance your ability to analyse, present and interpret scientific data through field-based activities.

**Year 2:**
You’ll be introduced to specialist marine conservation concepts and continue to build knowledge and understanding of a broad range of topics in ocean science. The core marine conservation modules develop an understanding of the range of impacts human activities have on marine ecosystems. You’ll have the opportunity to develop your interests through a choice of option modules covering areas such as coastal oceanography, scientific diving and more advanced hydrographic survey and mapping methods.

**Final year:**
During this year you’ll develop your scientific skills with the opportunity to participate in a residential field course. A large part of the year will be spent on an independent research project with guidance from an academic advisor. Taught modules will complete your advanced understanding of marine ecosystem conservation and marine conservation policy and management. You’ll have the opportunity to develop your specific interests, for example in marine pollution or biological oceanography, through an optional module.

**Special features:**
- Gain specialist skills including ecological survey methods and quantitative data analysis, and qualitative skills related to stakeholder data collection such as structured interviews and questionnaires.
- Draw on expert staff involved in internationally leading research including managing protected populations and marine protected areas (MPAs), marine and coastal governance, marine ecosystem services and economics, and society and the sea.
- Develop your range of practical skills with our own fully equipped fleet of boats, a new £5 million Marine Station used as a base for fieldwork afloat, and industry-standard oceanographic and surveying equipment.
- Option to take the industry-recognised professional diving qualification (HSE Professional SCUBA) and RYA power boat certificates alongside your degree and an optional dedicated scientific diving module to provide training and qualification for diving-based research projects and employment (limited places and additional costs apply).
- An overseas field course integrates your ocean science and marine conservation knowledge and understanding across the different sub-disciplines to address real-world issues.

**Entry requirements:**
104–112 points from a minimum of two A levels to include a grade C in Environmental Science, Geography or Geology or 104 points from a minimum of two A levels to include grade C in Biology, Chemistry, Maths or Physics.
GCSE: Grade C or above in Maths.

For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

**Career opportunities:**
Graduates are employed throughout the marine science sector in areas such as coastal management, conservation, the offshore industry, oceanographic consultancy and research. You’ll be equipped with the skills needed to work or conduct research in ecology, conservation, environmental monitoring and habitat management. Your sound scientific skills and knowledge will open the door to wider general graduate employment opportunities.

**UCAS course code**
F732

**Institution code**
P60

**Duration**
3 years

**Course type**
Full time

**Location**
Plymouth

**Fees**
For details about fees please refer to page 24

Prepare for careers in marine conservation and other marine industries such as environmental consultancy and the marine energy sector.
BSc (Hons) OCEANOGRAPHY AND COASTAL PROCESSES

Are you motivated by a desire to understand processes in the world’s oceans that drive phenomena such as ocean circulation, ocean acidification, sea-level rise or coastal erosion? If so, this course will provide you with the practical skills and knowledge needed for a career in applied oceanography, coastal zone management or scientific research.

**Year 1:**
Year 1, shared across the Marine Science Undergraduate Scheme, introduces the full range of topics within the degree and develops your underpinning scientific knowledge and practical skills. You’ll develop your understanding of the Earth’s oceans and the key physical, chemical, and biological processes that occur in these systems. You’ll build practical skills and enhance your ability to analyse, present and interpret scientific data through field-based activities.

**Year 2:**
You’ll deepen your understanding of the core aspects of physical, chemical and biological oceanography and begin to focus on the physical processes that shape the open-ocean and coastal environments. You’ll receive advanced training in the preparation, programming, deployment, recovery and maintenance of instrumentation and develop a proposal for your final-year research project. You’ll also be able to broaden your interests into areas such as meteorology, remote sensing and scientific diving.

**Final year:**
During the final year, you’ll complete your core training in advanced aspects of ocean dynamics and coastal processes and participate in a residential field trip where you’ll utilise and further develop your practical skills. A large proportion of your time will be spent completing your individual research project for which you will be given guidance by a member of academic staff. You’ll also be able to pursue an option module, for example to explore ocean modelling, climate science or marine pollution.

**Special features:**
- Benefit from access to a range of state-of-the-art oceanographic instrumentation that you will be trained to independently prepare, deploy and recover.
- Pursue optional subjects that most interest you from a range including meteorology, remote sensing, marine conservation, hydrographic surveying, modelling ocean processes and marine pollution.
- Progress into work in oceanographic research and consultancy, coastal zone management, and related marine-science industries such as the emerging field of marine renewable energy.
- Develop your range of practical skills with our own fully equipped fleet of boats, a new £5 million Marine Station used as a base for fieldwork afloat, and industry-standard oceanographic and surveying equipment.
- Option to take the industry-recognised professional diving qualification (HSE Professional SCUBA) and RYA power boat certificates alongside your degree and an optional scientific diving module to provide training and qualification for diving-based research projects and employment (limited places and additional costs apply).
- An overseas field course integrates ocean science knowledge and understanding from across the different sub-disciplines to address real-world issues.

**Entry requirements:**
104–112 points from a minimum of two A levels to include grade C in Environmental Science, Geography or Geology or 104 points from a minimum of two A levels to include grade C in Biology, Chemistry, Maths or Physics.

GCSE: Grade C or above in Maths.

For a full list of all acceptable qualifications please refer to our tariff glossary on page 330.

**Career opportunities:**
The course develops the skills for a career in a range of science-based areas including research, environmental consultancy, marine monitoring, environmental management, coastal zone management, applied oceanography and scientific research.

**UCAS course code**
F730

**Institution code**
P60

**Duration**
3 years

**Course type**
Full time

**Location**
Plymouth

Develop your range of practical skills with our own fully equipped fleet of boats, a new £5 million Marine Station and industry-standard oceanographic and surveying equipment.