

## Programme Specification

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### BSc Biology and Marine Biology (2020-21)

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

Awarding Institution	University of Southampton
Teaching Institution	University of Southampton
Mode of Study	Full-time
Duration in years	3
Accreditation details	None
Final award	Bachelor of Science with Honours (BSc (Hons))
Name of award	BSc Biology and Marine Biology
Interim Exit awards	Certificate of Higher Education (CertHE) Diploma of Higher Education (DipHE)
FHEQ level of final award	Level 6
UCAS code	7N15
Programme code	8165
QAA Subject Benchmark or other external reference	
Programme Lead	Phillip Fenberg (pbf1c13), Neil Gostling (njg1d15)

### Programme Overview

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#### Brief outline of the programme

Our BSc Biology and Marine Biology programme combines modules from the Centre for Biological Sciences (CbBS) and from the School of Ocean and Earth Science (OES) (based at the National Oceanography Centre Southampton (NOCS)). In Southampton you will undertake a balanced (50:50 terrestrial and marine) programme where you will gain the relevant skills and knowledge for a career requiring a blend of terrestrial and marine biological expertise.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

There has been a massive increase in the interest in marine and terrestrial biodiversity, ecology, and evolution. The exploitation of natural resources and the potential impact of climate and anthropogenic influences on biodiversity is a growing subject for research. Biology and marine biology students will expand their biology-knowledge base and develop their understanding of the living world from the molecular level to entire ecosystems across both terrestrial and marine biology.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

### Learning and teaching

You will be taught through a combination of lectures, tutorials, practical classes, coursework fieldwork and projects. In Part 3 you will undertake an independent research project. Field courses will happen in each of Parts 1, 2 and 3, culminating in the shallow water mapping field course in June of part 3.

In addition to the methods described in the section above you will be supervised in practical classes and during both your Part 3 project.

You will be helped to acquire generic and transferrable skills through aspects of the formal teaching programme. In the early parts this will mainly be through tutorial and coursework, whilst in Part 3, your project work will give you ample opportunity to further develop and practise many of the individual skills.

Throughout the programme you will undertake independent reading both to supplement and consolidate the taught material and to broaden your knowledge and understanding of biology and marine biology.

### Assessment

You are assessed by a combination of continuous assessment and written examinations at the end of each semester to test your knowledge and understanding of the lecture and tutorial material. Continuous assessment is based on performance in practical sessions, fieldwork and/or independent reading and synthesising.

Your subject specific skills will be assessed as described in the section above. Experimental and research skills are assessed through an appropriate combination of laboratory reports, project reports and presentations.

## Special Features of the programme

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The blend of terrestrial and marine science within this programme provides a unique series of fieldwork/boatwork opportunities. In Part 1 you will attend a 5-day field course in Andalusia (BIOL1001) looking at both terrestrial and marine biology and in Part 2 a 7-day intertidal marine biology field course, currently held at Dale Fort in South Wales (timetabled in SOES2030). You will be required to attend a 7-day residential shallow water survey techniques field course at the end of Part 2 currently in Falmouth (timetabled in SOES3051).

Further information is available in the Student Handbooks and on the Academic Unit web pages: <http://www.southampton.ac.uk/oes/>. Details of the individual modules taken in each part are provided in the pathway guides.

**Please note:** As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration; however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our [Disclaimer](#) to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's [programme validation process](#) which is described in the University's [Quality handbook](#).

## Educational Aims of the Programme

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You will undertake a balanced programme where you will gain the relevant skills and knowledge for a career using skills developed whilst studying Biology and Marine Biology.

The aims of this programme are to provide:

- A stimulating, informed learning environment through a wide range of interesting and contemporary courses, with flexibility of choice, but allowing you to increasingly focus as you progress from level to level.
- The opportunity to develop a knowledge and understanding of living organisms at several levels of biological organisation from the molecular, through cells and whole organisms, to ecosystems; and from an evolutionary perspective.
- An understanding of terrestrial and marine biological systems and processes in theory and practice.
- Exposure to a range of terrestrial and marine biological concepts.
- The opportunity to construct individual programmes of study within a coherent framework, including advanced concepts and techniques in biological topics of your choice.
- Training in relevant laboratory and field work skills.
- An opportunity to develop a range of transferable skills (information and communication technology, team working, written and oral communication, time management, planning, data collection, analysis and presentation), and the capacity to give a clear and accurate account of the subject.
- An opportunity for you to develop the ability to think critically and to show that you can pursue independent study.
- Independent research projects on marine and terrestrial biological topics.
- An education and training suitable for a wide variety of careers and to prepare you for higher degrees and careers in marine and terrestrial biological research.
- The capability for life-long learning, study and enquiry.

## Programme Learning Outcomes

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### Knowledge and Understanding

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On successful completion of this programme you will have knowledge and understanding of:

- A1. Fundamental knowledge and understanding of biology
- A2. Core concepts and principles, themes, terminology and classification systems in the disciplines covered
- A3. Theory and practice of acquisition, analysis and interpretation of biological data across a range of biological applications
- A4. How the chemistry and structure of the major biological macromolecules, including proteins and nucleic acids, determines their biological properties
- A5. Theory and practice of acquisition, analysis and interpretation of biological data across a range of biological applications.
- A6. Understand how the principles of genetics underlie much of the basis of modern molecular biology
- A7. How the diversity of organisms on earth evolved and how they are identified and classified
- A8. Use and interpretation of the outcome of a variety of statistical methods
- A9. An ability to recognise the principal coastal and oceanic ecosystems at global, regional and local scales
- A10. Key biological, physical and chemical processes operating in ecosystems
- A11. The types of plants and animals inhabiting marine environments and their ecological adaptations to particular physio-chemical conditions
- A12. The major attributes of the Earth environment, now and in the past
- A13. To describe the basic physiological and other functional characteristics of organisms

- A14. How to relate the form and function of a marine and terrestrial organisms to its habitat
- A15. An appreciation of the main evolutionary trends that can be found in marine and terrestrial species
- A16. An appreciation of the fundamental processes of phytoplankton photosynthesis and primary production in the ocean
- A17. The main factors influencing phytoplankton production and carbon recycling in the surface ocean
- A18. The acquisition of a basic introduction to practical methods for observing phytoplankton, quantifying their biomass and determining photosynthesis and respiration rates.
- A19. The key molecules involved in the fundamental biochemical processes occurring in living cells including nucleic acid and protein function; gene structure and regulation
- A20. Aspects of the cellular and sub-cellular processes of marine organisms, including cell apoptosis; damage and decay of cell components; oxidative & anaerobic metabolism
- A21. Appreciation of ecological and evolutionary processes at a population and ecosystem-wide level, including the molecular basis of photosynthesis or chemosynthesis.
- A22. The principles and application of a range of molecular biological experimental research techniques to biological studies
- A23. Conduct a range of basic molecular biological and biochemical assays on nucleic acids and proteins and appropriately analyse laboratory data.
- A24. The distinction between and use of a range of library information and bioinformatic database services
- A25. Basic ecological principles relating to shore ecology
- A26. The use of keys to identify fauna and flora
- A27. How to design, plan and implement a research project
- A28. An appreciation of water column sampling strategies in marine biology
- A29. An ability to design and carry out a practical, pragmatic and effective field survey that collects quantified data suitable for statistical analysis to test a hypothesis.

## **Subject Specific Intellectual and Research Skills**

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On successful completion of this programme you will be able to:

- B1. Formulate and test hypotheses by planning, conducting and reporting a significant programme of (marine) biological research
- B2. Use a range of (marine) biological skills to conduct experiments and/or collect observational data
- B3. Use computer software and statistics to record and analyse data and determine their importance and validity
- B3. Use information technology and other resources to find, extract and synthesize information
- B4. Analyse critically and solve complex (marine) biological problems
- B4. Solve problems relating to quantitative information
- B5. Integrate your (marine) biological knowledge base with broader biological disciplines such as development, behaviour conservation and evolution
- B6. Independently integrate and critically evaluate biological data from a wide range of sources, including primary source material in ecological journals and experimentation
- B7. Demonstrate a systematic understanding of how the boundaries of (marine) biological knowledge are advanced through research
- B8. Conduct risk assessments concerning the use of equipment, laboratory and field procedures
- B9. Critically evaluate the data and methodology of current published research in (marine) biological sciences and present your conclusions

- B10. Carry out literature searches and synthesis of material for written material
- B11. Production of a thorough but concise scientific report describing the background, hypothesis being tested, aims/objectives of study, methodology, results, discussion of results and conclusions made from the data

## **Transferable and Generic Skills**

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On successful completion of this programme you will be able to:

- C1. Communicate/present effectively both verbally and in writing on a range of topics in (marine) biological sciences to both specialised and non-specialised audiences.
- C2. Work with, and within, a group towards defined outcomes.
- C3. Learn independently through critical enquiry
- C4. Solve problems relating to qualitative and quantitative information.
- C5. Learn independently through critical enquiry.
- C6. Demonstrate you have the ability to undertake appropriate further training.
- C7. Manage resources and time.
- C8. Assess the wider significance of scientific results, including any commercial applications and present the group results as an executive summary report.
- C9. Deliver an oral presentation with appropriate visual aids and to appreciate the role of information technology in delivering presentations.

## **Teaching and Learning Methods**

You will be taught through a combination of lectures, tutorials, practical classes, coursework fieldwork and projects. In Part 3 you will undertake an independent research project. In your final part you will take an advanced independent research-based project. Field courses will happen in each of Parts 1, 2 and 3, culminating in the shallow water mapping field course in June of part 3.

In addition to the methods described in the section above you will be supervised in practical classes and during both your Part 3 project.

You will be helped to acquire generic and transferrable skills through aspects of the formal teaching programme. In the early parts this will mainly be through tutorial and coursework, whilst in Part 3 your project work will give you ample opportunity to further develop and practise many of the individual skills.

Throughout the programme you will undertake independent reading both to supplement and consolidate the taught material and to broaden your knowledge and understanding of biology and marine biology.

## **Assessment Methods**

You are assessed by a combination of continuous assessment and written examinations at the end of each semester to test your knowledge and understanding of the lecture and tutorial material. Continuous assessment is based on performance in practical sessions, fieldwork and/or independent reading and synthesising.

Your subject specific skills will be assessed as described in the section above. Experimental and research skills are assessed through an appropriate combination of laboratory reports, project reports and

presentations.

## Programme Structure

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The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

### Typical course content

The programme is offered as a full-time course. The BSc Biology and Marine Biology programme normally lasts for three years.

Study is divided into three parts - each part normally corresponding to one year of full-time study. The programme is delivered in a semester pattern, each semester having 12 weeks for teaching and learning and 2-3 weeks for examinations.

The programme is divided into individual study modules at each part. Each study module is accredited as being worth a certain number of credit points to you on successful completion. Modules are normally worth 7.5 ECTS which is equivalent to 150 hours of study. Normally up to 60 hours comprises contact teaching (lectures, practical sessions, tutorials, etc.), and the remainder of the time is for your own independent study. Modules are generally assessed at the end of each semester, but some are assessed entirely by coursework throughout the duration of the module.

In Part 1 there are a number of core and compulsory modules, which lay a solid foundation in the basic discipline of this programme. More specialised training and options that enable diversification commence in Part 2.

In Part 3, students are exposed to the forefronts of the discipline's knowledge, with the opportunity to conduct supervised original research. You will also be exposed to cutting edge research, participating in seminar presentations in wide-ranging and specialist topics.

A full list of the modules available for each part under each programme and module profiles are provided on the academic unit's website at: <http://www.southampton.ac.uk/oes/undergraduate/courses.page> and <http://www.southampton.ac.uk/biosci/undergraduate/courses.page?>

### Part 1 (Year 1)

The following modules are compulsory or core and must be taken:

Students will also take, as a formative requirement, an MCA approved first aid course as well as a survival at sea course.

Code	Module Title	ECTS	Type
BIOL1020	Core Skills in the Life Sciences	7.5	Core
SOES1008	Earth and Ocean System	7.5	Compulsory
BIOL1001	Experimental and Field Biology	7.5	Compulsory
SOES1006	Introduction to Marine Ecology and Evolution	7.5	Compulsory

### Part 1 (Year 1) Optional Modules 1

Choose one module from the following 2 modules

Code	Module Title	ECTS	Type
SOES1007	Marine Invertebrates	7.5	Optional
BIOL1004	Patterns of life and their evolution	7.5	Optional

### Part 1 (Year 1) Optional Modules 2

Choose one module from the following 2 modules

Code	Module Title	ECTS	Type
SOES1011	Introduction to Functional Marine Biology	7.5	Optional
BIOL1012	Systems Physiology	7.5	Optional

### Part 1 (Year 1) Optional Modules 3

Choose 2 from the following 3 modules

If BIOL1010 is taken in Part 1 the SOES2026 cannot be taken in part 2

If you choose to undertake SOES2030 in Year 2, you must choose SOES1015 below. You should not select SOES1015 if you do not choose to undertake SOES2030 in Year 2

Code	Module Title	ECTS	Type
BIOL1005	Cell Biology & Genetics	7.5	Optional
BIOL1003	Ecology & Evolution	7.5	Optional
BIOL1010	Macromolecules of Life	7.5	Optional
SOES1015	Quantitative Methods in Marine Sciences	7.5	Optional

### Part II (Year 2)

#### Part II (Year 2) Compulsory Modules

The following modules are compulsory and must be taken

BIOL2008 is only core if you do not select to study SOES1015 in Year 1 and SOES2030 in Year 2. If you choose SOES1015 and SOES2030 you will not undertake BIOL2008

Code	Module Title	ECTS	Type
BIOL2001	Evolution	7.5	Compulsory
SOES2006	Phytoplankton and Primary Production	7.5	Compulsory
BIOL2008	Quantitative Methods in Biological and Environmental Science	7.5	Core

## Part II (Year 2) Optional Module 1

The following module must be selected if you did not take BIOL1010 in Part 1

Code	Module Title	ECTS	Type
SOES2026	Molecular Tools for Advancing Marine Biology Research	7.5	Optional

## Part II (Year 2) Optional Modules 2

You must choose 3 or 4 modules depending on whether you have to take SOES2026

Your choice must include at least 1 BIOL module and 1 SOES module

Students who take either BIOL2010 or BIOL2013 will not be able to take SOES3031 in year 3

If you select SOES2030, you must have undertaken SOES1015 in Year 1

Code	Module Title	ECTS	Type
BIOL2018	Adaptive Physiology	7.5	Optional
BIOL2039	Animal Behaviour	7.5	Optional
BIOL2013	Bioinformatics and DNA Technology	7.5	Optional
BIOL2002	Cell Biology	7.5	Optional
SOES2024	Coastal and Estuarine Oceanography I	7.5	Optional
SOES2027	Coastal and Estuarine Oceanography II	7.5	Optional
SOES2030	Dale Field Marine Biology Fieldwork Skills	7.5	Optional
BIOL2038	Environmental Microbiology	7.5	Optional
BIOL2010	Flow of Genetic Information	7.5	Optional
SOES2017	Marine Benthos Ecology	7.5	Optional
SOES2011	Marine Vertebrates	7.5	Optional
BIOL2040	Neural Basis of Behaviour	7.5	Optional
BIOL2014	Neuroscience	7.5	Optional
BIOL2007	Plant Development and Function	7.5	Optional
BIOL2004	Pure and Applied Population Ecology	7.5	Optional
BIOL 2045	Vertebrate Development	7.5	Optional
BIOL 2047	Animal Conservation	7.5	Optional

## Part III (Year 3)

### Part III (Year 3) Compulsory Fieldwork

Code	Module Title	ECTS	Type
SOES3051	Shallow Water Survey Techniques	7.5	Compulsory



### Part III (Year 3) Independent Study

A compulsory module of independent study is required.

Choose 1 module

Code	Module Title	ECTS	Type
BIOL3058	Bioscience Business	15	Optional
BIOL3059	Bioscience Education	15	Optional
BIOL3061	Field Research Project	15	Optional
SOES3046	Independent Research Project (Oceanography, Marine Biology)	15	Optional
BIOL3034	Laboratory Research Project	15	Optional
BIOL 3071	External Research Project	15	Optional
BIOL 3069	In-Silico Research Project	15	Optional

### Part III (Year 3) Optional Modules

Choose a further 5 modules. Your choice must include at least 2 BIOL modules and at least 2 SOES modules. Students who have taken BIOL2010 and/or BIOL2013 are not eligible to take SOES3031.

Code	Module Title	ECTS	Type
BIOL3009	Applied Ecology	7.5	Optional
BIOL3051	Applied Plant Biology	7.5	Optional
BIOL3053	Biodiversity and Conservation	7.5	Optional
BIOL3057	Biofilms and Microbial Communities	7.5	Optional
BIOL3006	Cellular and Genetic Aspects of Animal Development	7.5	Optional
SOES3041	Communicating and Teaching in the Undergraduate Ambassadors Scheme	7.5	Optional
BIOL3001	Current Topics in Cell Biology	7.5	Optional
SOES6008	Deep Sea Ecology	7.5	Optional
SOES3017	Marine Fisheries Ecology	7.5	Optional
SOES3031	Marine Molecular Biology	7.5	Optional
BIOL3013	Molecular Recognition	7.5	Optional
BIOL3003	Plant Cell Biology	7.5	Optional
BIOL3010	Topics in Ecology and Evolution	7.5	Optional
SOES3053	Understanding Coral Reefs	7.5	Optional
SOES3013	Zooplankton Ecology and Processes	7.5	Optional
BIOL3056	Global Change Biology	7.5	Optional
BIOL3070	Tropical Ecology Field Course	7.5	Optional
BIOL 3063	Bioinformatics and Systems Biology	7.5	Optional
BIOL 3067	Evolution and Development	7.5	Optional
SOES 3054	Marine Conservation and Policy	7.5	Optional

## Progression Requirements

The programme will follow the University's regulations for [Progression, Determination and Classification of Results: Undergraduate and Integrated Masters Programmes](#) or the University's regulations for [Progression, Determination and Classification of Results: Standalone Masters Programmes](#) as set out in the General Academic Regulations in the University Calendar: <http://www.calendar.soton.ac.uk/sectionIV/sectIV-index.html>

## Support for student learning

There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular Faculty or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources)
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling. Support includes daily Drop In at Highfield campus at 13.00 – 15.00 (Monday, Wednesday and Friday out of term-time) or via on-line chat on weekdays from 14.00 – 16.00. Arrangements can also be made for meetings via Skype.
- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia).
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards
- Career and Employability services, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls and in the local community, (18.00-08.00)
- A Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

The Students' Union provides

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; SUSU provides training and support for all these representatives, whose role is to represent students' views to the University.
- opportunities for extracurricular activities and volunteering
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal
- Support for student peer-to-peer groups, such as Nightline.

## Methods for evaluating the quality of teaching and learning

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You will have the opportunity to have your say on the quality of the programme in the following ways:

Further details on the University's quality assurance processes are given in the [Quality Handbook](#).

## Career Opportunities

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- Provide you with a coherent programme of study which will offer you an extensive and in-depth knowledge and understanding of aspects of Marine Biology and Biology, and how it interrelates with the entire spectrum of marine and terrestrial science, and through flexibility of choice, to allow you to develop some degree of specialisation within your field of choice.
- Provide you with a high quality and intellectually stimulating experience of learning in a supportive environment.
- Equip you to undertake a successful career as a professional biologist in the public or private arena, or in a wide range of other contexts.
- Provide you with a sound background and suitable qualification that would enable you to proceed to a more specialist higher degree at the MSc or PhD level.
- Develop your critical and analytical problem-solving powers, especially in relation to the marine and terrestrial sciences, but also those which have a broader application.
- Develop your intellectual, practical and fieldwork skills in the collection, analysis, interpretation and understanding of marine biological and oceanographic data.
- Develop your powers of observation, analysis and understanding in order that you can make decisions with appropriate acknowledgement of uncertainties.
- Give you the experience of undertaking an original project at the forefront of Earth or marine science in a professional research environment.
- Provide you with opportunities for shared multi-disciplinary learning in the marine and biological sciences.
- Enable you to engage with life-long learning, study and enquiry, and to appreciate the value of education and research to society.
- Enhance your interpersonal skills, particularly in the context of the work place.
- Postgraduate degrees
- Teaching
- Government agencies, e.g. British Antarctic Survey; the Environment Agency
- Global corporations, e.g. British Petroleum
- Nature Conservation Groups
- Research laboratories
- Commercial consultancies

## External Examiner(s) for the programme

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Dr Kerry Howell - University of Plymouth

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their Course Representative, for consideration through Staff: Student Liaison Committee in the first instance, and Student representatives on Staff: Student Liaison Committees will have the opportunity to consider external examiners' reports as part of the University's quality assurance process.

External examiners do not have a direct role in determining results for individual students, and students wishing to discuss their own performance in assessment should contact their Personal Academic Tutor in the first instance.

**Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook.

## Appendix 1:

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. In addition to this, students registered for this programme also have to pay for:

### Additional Costs

Type	Details
Clothing	<p>Description: Lab coats and safety spectacles: Marine Biology students will receive a lab coat, dissection kit and waterproof notebook during Induction. If these are lost the student must replace them at their own expense.</p> <p>Field course clothing: You will need to wear suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source.</p> <p>Wet Suits: You will need to purchase a suitable wet suit and associated snorkelling equipment if participating on SOES6052.</p>
Field Trips	<p>SOES6052: Tropical Field Course</p> <p>This field trip is optional and open only to MSci Marine Biology and MSci Biology with Marine Biology students. Students are expected to fund their travel and to provide their own snorkelling equipment, including 3mm-thick wetsuit. The total cost is currently expected to be no more than £800-900. The department provides full board, IT and lab facilities and course-related travel whilst on Bermuda.</p>
IT	<p>Description: Data Storage: Students are expected to provide their own data storage device</p> <p>Software Licenses: Will be provided by the University where appropriate.</p> <p>Hardware: It is advisable that students provide their own laptop or personal computer, although shared facilities are available across the University campus.</p>
Textbooks	<p>Description: Where a module specifies core texts these should generally be available on the reserve list in the library. However, students may prefer to buy their own copies. These can be purchased from any source.</p> <p>Some modules suggest reading texts as optional background reading. The library may hold copies of such texts, or alternatively you may wish to purchase your own copies. Although not essential reading, you may benefit from the additional reading materials for the module.</p>
Other	<p>Please note that if a field course is compulsory for your degree programme and you later move from that degree programme to one where that field course is optional, you will be charged for the cost of that field course. To provide an example: students on the MSci Marine Biology programme undertaking the field course to Bermuda will be charged the full cost of the field course if they later choose to transfer to the BSc Marine Biology degree programme.</p> <p>In addition to the field courses mentioned in this booklet, there are also one-day field courses associated with specific modules; students are expected to cover food and drink costs for these days, but transport is arranged and paid for by the department. As the department arranges transport, should students wish to make their own way to or from field courses, then they must meet these costs themselves.</p>

	Laboratory Equipment and Materials: Laboratory equipment and consumables will be provided where appropriate.
Field Equipment and Materials	<ul style="list-style-type: none"> <li>· Marine Biology students will receive a lab coat, dissection kit and waterproof notebook during Induction.</li> <li>· Oceanography students will receive a lab coat and waterproof notebook during Induction.</li> </ul> <p>Insurance (travel, medical, personal property and baggage) Students are automatically insured whilst on University organised field courses undertaken as part of their official studies, including field.</p>
Printing and Photocopying Costs	<p>Coursework such as essays, projects and dissertations may be submitted online. However, some items will require submission as a printed copy, including some items where it is not possible to submit online. The University printing costs for taught students are currently:</p> <p>A4 - 5p per side (black and white) or 25p per side (colour) A4 - 4.5p double sided (black and white) or 24p double sided (colour) A3 - 10p per side (black and white) or 50p per side (colour)</p> <p>A3 - 9.5p double sided (black and white) or 48p double sided (colour)</p> <p>Please remember that we are unable to refund any credit that has not been used by the end of your course, so please consider this when topping up your printing/copy account.</p> <p>You will be given a printing allowance towards the costs of printing lecture handouts or you may choose to use digital versions only during lectures.</p> <p>The University Print Centre also offer a printing and copying service as well as a dissertation/binding service. They also provide a large format printing service, e.g. Academic posters.</p>

In some cases you'll be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at [www.calendar.soton.ac.uk](http://www.calendar.soton.ac.uk).