

# Programme Specification

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## Master of Ecology & Conservation (4 years): 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	4 years, following standard progression for a full-time student
Accreditation details	Not applicable
Final award	Master of Ecology & Conservation (MSci Ecology & Conservation) – Honours
Name of award	Ecology & Conservation
Interim Exit awards	Bachelor of Science (Honours) Bachelor of Science (Ordinary) Diploma of Higher Education Certificate of Higher Education
FHEQ level of final award	7
UCAS code	C180
QAA Subject Benchmark or other external reference	QAA Subject Benchmark Statements for Bioscience (2007) QAA Framework for Higher Education Qualifications (FHEQ) QAA Masters Degree Characteristics
Programme Lead	Dr N Gostling
Date specification was written	01/02/2013
Date specification was validated	December 2017
Date specification was last updated	March 2019

## Programme Overview

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### Brief outline of the programme

This 4-year integrated Masters degree provides you with a focused training in ecological research, based on a solid biological foundation. A key part of the degree is gaining experience in carrying out ecological research: students will do an independent research project in part 3, and an advanced research project in Part 4. You will also obtain essential ecological skills, receive advanced statistical training, and be able to engage with current ecological research.

You will undertake a balanced programme where you will gain the relevant skills and knowledge for a career in Ecology and Conservation. Our links with institutions undertaking zoological research enables us to integrate their expertise within the MSci Ecology & Conservation degree; for example Marwell Zoological Park is used in the undergraduate programme and opportunities exist to undertake final year research projects there and at many other sites.

### Learning and teaching

A broad range of teaching methods will be employed during the 3 year course, including a combination of lectures, tutorials, practical classes and field-courses, in conjunction with coursework, and research projects. Throughout the programme you will be required to undertake independent reading both to consolidate and supplement the taught material and to broaden your knowledge and understanding of ecology and conservation. Analysis, problem solving and research skills are further developed in tutorials, laboratory practicals and project work.

### Assessment

Assessment of your knowledge base is achieved through a combination of written examinations and assessed coursework in the form of laboratory and fieldwork practical reports, essays, and project reports and presentations. Experimental and research skills are assessed through an appropriate combination of laboratory reports, project reports and presentations.

**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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The aims of the programme are to provide:

1. 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 through your studies.
2. 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;
3. an understanding of biological systems and processes in theory and practice;
4. exposure to a range of ecological concepts;
5. the opportunity to construct individual programmes of study within a coherent framework, including advanced concepts and techniques in biological and ecological topics of your choice;
6. training in relevant laboratory and field work skills;
7. 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;
8. an opportunity for you to develop the ability to think critically and to show that you can pursue independent study;
9. independent research projects on ecological topics;
10. an education and training suitable for a wide variety of careers and to prepare you for higher degrees and careers in ecological research;
11. the capability of life-long learning, study and enquiry.

## **Programme Learning Outcomes**

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### **Knowledge and Understanding**

Having successfully completed this programme you will be able to:

- A1. show knowledge and understanding of a range of topics relevant to Ecology & Conservation, as detailed in the learning outcomes for the core and compulsory modules for this programme
- A2. use a range of practical skills and techniques relevant to Ecology & Conservation, as detailed in the Learning Outcomes for the core and compulsory modules for this programme
- A3. utilise methods and experimental designs to address ecological problems and questions
- A4. collect and analyse experimental data
- A5. interpret and write up the results of experiments
- A6. create and deliver a presentation on a topic relevant to Ecology & Conservation
- A7. conduct research into an area of science relevant to Ecology & Conservation
- A8. produce a dissertation, based on scientific research in Ecology & Conservation
- A9. have an appreciation of the ethical and societal aspects of research in the biosciences
- A10. conduct an in-depth piece of scientific research, evidenced by a substantial dissertation

### **Teaching and Learning Methods**

You will be taught through a combination of lectures, tutorials, practical classes, coursework and projects. In parts 3 and 4 you will undertake independent research projects. You will be helped to acquire generic and transferrable skills through aspects of the formal teaching programme. In the early years this will mainly be through tutorial and coursework, whilst in parts 3 and 4 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 ecology and conservation.

### Assessment methods

You will be assessed via 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 practicals and/or independent reading and synthesising information.

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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### Typical course content

The programme is offered as a full-time course. The MSci Ecology & Conservation programme normally lasts for four years.

Study is divided into four parts for the MSci, each part 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 in each part. Modules are normally worth 7.5 ECTS which is equivalent to 150 hours of study. Typically up to 60 hours of a module is comprised of contact teaching (lectures, practicals, 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.

The four-year programme is intended to develop research skills in a more inter-disciplinary context than is possible in a three-year degree structure. You will also be exposed to cutting edge research, participating in seminar presentations in wide-ranging and specialist topics.

In Part 1, there are a number of *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 Parts 2 and 3, students are exposed to the forefront of the discipline's knowledge, with the opportunity to conduct supervised original research.

In Part 4 you will undertake an extended research project alongside compulsory and optional modules designed to further develop subject specific skills and knowledge.

### Special Features of the Programme

This programme involves compulsory field courses organised by the university in Spain during the Easter break of part 1 and in the New Forest in part 2. Additionally there is the opportunity to take a further optional Tropical Ecology field course module in part 3 or to carry out field-based project work in part 3 and/or part 4.

## Programme details

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### Part 1 (FHEQ Level 4)

In Part 1, students are required to complete eight modules which includes seven compulsory modules.

One further module (total 7.5 ECTS) must be chosen and this can be from outside Biological Sciences – modules with ecological emphasis are encouraged e.g. marine ecology modules (SOES codes), environmental science modules (ENVS codes) or geography modules (GEOG codes).

The modules in Part 1 will provide a sound understanding and knowledge of the fundamental aspects of biological science, covering physiology, molecular, cell biology and genetics and a solid introduction to ecology, with modules on the main branches of ecology, evolution, conservation including first-hand experience in methods used in ecology research.

Part 1: Modules	Module type:	ECTS
BIOL1004 Patterns of Life	Compulsory	7.5
BIOL1010 Macromolecules of Life*		7.5
BIOL1012 Systems Physiology*		7.5
BIOL1020 Core Skills in the Life Sciences		7.5
BIOL1003 Ecology and Evolution		7.5
BIOL1001 Experimental & Field Ecology		7.5
BIOL1005 Cell Biology & Genetics		7.5
<i>Additional module may be selected from:</i>		
BIOL1013 Integrative Mammalian Physiology	Recommended	7.5
BIOL1022 Metabolism & Metabolic Disorders		7.5
BIOL1023 Cell and Tissue Histology		7.5
SOES1006 Introduction to Marine Ecology	Optional	7.5
Modules from other disciplines such as SOES, ENVS, GEOG or a Language module		7.5

## Part 2 (FHEQ Level 5)

In Part 2, students are required to take eight modules of which 5 are compulsory and 3 are optional. Note that BIOL2001 Evolution must be *passed* in order to be allowed to take BIOL3010 Topics in Ecology & Evolution in part 3; BIOL2008 Quantitative Methods in Biological & Environmental Science must be *passed* in order to be allowed to take the BIOL3034 Laboratory research project, BIOL3061 Field Research Project, BIOL3071 External Research Project or BIOL3062 Short Field Project in part 3.

The modules in part 2 build on the basic biological and ecological principles laid down in part 1. Developing understanding and knowledge in evolution, population ecology, biodiversity and conservation priorities and gaining experience in valuable analytical, ecological survey, and taxonomic skills. There is increased flexibility in module choice providing opportunity to construct programmes of study, which include biological topics such as animal behaviour, plant science and marine ecology.

Part 2: Modules	Module type:	ECTS
BIOL2004 Pure & Applied Population Ecology	Compulsory	7.5
BIOL2008 Quantitative Methods in Biological & Environmental Science		7.5
BIOL2001 Evolution		7.5
BIOL2041 New Forest Field Course		7.5
BIOL2047 Animal Conservation		7.5
<i>Additional modules may be selected from:</i>		
BIOL2039 Animal Behaviour	Recommended	7.5
BIOL2007 Plant Development & Function		7.5
BIOL2045 Vertbrate Development		7.5
BIOL2018 Adaptive Physiology	Optional	7.5
BIOL2038 Microbiology – from the natural environment to disease		7.5
BIOL2040 Neural Basis of Behaviour		7.5
BIOL2002 Cell Biology		7.5
BIOL2010 Flow of Genetic Information		7.5
BIOL2012 Exploring Proteins : Structure & Function		7.5
BIOL2013 Bioinformatics & DNA Technology		7.5
BIOL2014 Neuroscience		7.5
BIOL2043 Biotechnology & the Living Cell		7.5
BIOL2044 Medical Microbiology		
SOES2017 Ecological Processes in the Marine Benthos		7.5
ENVS2007 Environmental Pollution		7.5
ENVS2006 Environmental Impact Assessment		7.5
ENVS2008 GIS for Environmental Scientists		7.5
GEOG2007 Remote Sensing for Earth Observation		7.5
GEOG2006 Quaternary Environmental Change		7.5

A maximum of 2 modules can be taken from outside Biological Sciences and of these not more than one can be a UOSM coded module.

**BIOL2042 Biological Sciences Study Abroad.** There is an opportunity to carry out studies during semester 2 of part 2 at one of several partner universities in Australia or New Zealand. Specific module choices available will be dependent on the university selected and further information should be obtained from the module coordinator.

Progression to Part 3 is dependent on obtaining a minimum of 60% overall in the Part 2 assessment.

### Part 3 (FHEQ Level 6)

In Part 3 there is increased emphasis on the practical and theoretical aspects of ecology and conservation research.

In Part 3 you will undertake at least 15ECTS of independent study. You will be offered the choice of the following 15ECTS modules or combination of two 7.5ECTS modules:

- i) BIOL 3034 Laboratory research project
- ii) BIOL3061 Field research project
- iii) BIOL3069 *In-silico* research project
- iv) BIOL3071 External Research Project
- v) BIOL3062 Short field project (7.5 ECTS semester 1) plus BIOL3032 Literature-based research project (7.5ECTS semester 2)
- vi) BIOL3062 Short field project (7.5 ECTS semester 1) plus BIOL3073 Ethics research project (7.5 ECTS semester 2)

The remaining 45 ECTS is comprised of six modules; a minimum of FOUR of which must be selected from a set of BIOL modules (BIOL3009, BIOL3053, BIOL3010, BIOL3056, BIOL3067, BIOL3068, BIOL3070 and BIOL3072), and the remaining modules selected from optional BIOL3XXX, SOES3XXX, ENVS3XXX modules, or modules relating to a specific 'Minor' subject.

Part 3: Modules	Module type:	ECTS
<i>At least FOUR of the following modules</i>		7.5
BIOL3009 Applied Ecology	Compulsory	7.5
BIOL3053 Biodiversity & Conservation	Compulsory	7.5
BIOL3067 Evolution & Development	Compulsory	7.5
BIOL3010 Topics in Ecology & Evolution	Compulsory	7.5
BIOL3056 Global Change Biology	Compulsory	7.5
BIOL3068 Fluxes, cycles and microbial communities	Compulsory	7.5
BIOL3070 Tropical Ecology Field Course	Compulsory	7.5
BIOL3072 Behavioural Ecology	Compulsory	7.5
<i>Up to an additional 2 modules may be selected from:</i>		
BIOL3001 Current Topics in Cell and Developmental Biology	Optional	7.5
BIOL3003 Plant Cell Biology	Optional	7.5
BIOL3006 Cellular & Genetic Aspects of Animal Development	Optional	7.5
BIOL3051 Applied Plant Biology	Optional	7.5
BIOL3057 Biofilms & Microbial Communities	Optional	7.5
BIOL3020 Systems Neuroscience	Optional	7.5
BIOL3021 Cellular & Molecular Neuroscience	Optional	7.5
BIOL3013 Molecular Recognition	Optional	7.5
BIOL3014 Molecular Cell Biology	Optional	7.5
BIOL3015 Regulation of Gene Expression	Optional	7.5
BIOL3017 The Molecular & Structural Basis of Disease	Optional	7.5
BIOL3018 Molecular Pharmacology	Optional	7.5
BIOL3052 Biomedical Technology	Optional	7.5
BIOL3022 Cell Signalling in Health and Disease	Optional	7.5
BIOL3025 Neuropharmacology of CNS Disorders	Optional	7.5
BIOL3027 Selective Toxicity	Optional	7.5
BIOL3037 Immunology	Optional	7.5
BIOL3048 Neurodegenerative Disease	Optional	7.5
BIOL3063 Bioinformatics & Systems Biology	Optional	7.5
BIOL3064 Cancer and Chromosome Biology	Optional	7.5
BIOL3065 Biomedical Parasitology	Optional	7.5
BIOL3068 Fluxes Cycles & Microbial Communities	Optional	7.5
GEOG3068 Biogeography	Optional	7.5
SOES3013 Zooplankton Ecology processes	Optional	7.5
SOES3017 Marine Fisheries Ecology	Optional	7.5

Revisions of the contents of the programmes for Part 3 are made periodically to reflect developments at the frontiers of biology and ecology.

## Part 4 (FHEQ Level 7)

A compulsory 30 ECTS of advanced independent study must be chosen from the following 2 options:

Module (FHEQ Level 7)	ECTS
BIOL6013 Advanced Laboratory Research Project	30
BIOL6069 Advanced Field Research Project	30

A compulsory module (7.5 ECTS) based on relevant research seminar series at UoS:

Module (FHEQ Level 7)	ECTS
BIOL6053 Current Research	7.5

A compulsory module (7.5 ECTS) in advanced statistics and GIS:

Module (FHEQ Level 7)	ECTS
BIOL6052 Data Management and Generalised Linear Modelling for Biologists	7.5

A further 7.5 ECTS of skills-focussed modules, to be chosen from relevant 'short and fat' modules:

Module (FHEQ Level 7)	ECTS
BIOL6055 Computational Methods for Biological Data Analysis	3.75
BIOL6073 Critical Thinking	3.75
BIOL6075 Biological Optical Imaging	3.75
BIOL6077 Skills in Molecular Bioscience	3.75
BIOL6082 Skills in Biomolecular NMR	3.75
BIOL6083 Skills in Optical Spectroscopy	3.75

One further optional module (7.5 ECTS):

Module (FHEQ Level 7)	ECTS
A SOES or ENVS module from the following list (subject to availability and the note below) SOES6008, SOES6020, SOES6021, SOES6051, SOES6068, ENVS6003, ENVS6006, ENVS6023, ENVS6024.	7.5

[NB When choosing this option module, please note that it cannot be the 6XXX equivalent of a 3XXX module already taken in part three]

## Studying a Minor Subject

The structure of your degree programme allows you to exercise choice in each year of study. You can exercise this choice in a number of ways.

- You can use these modules to deepen your knowledge of your main subject.
- You can combine additional modules from your main subject with modules from other disciplines or choose from a selection of interdisciplinary modules.
- You can choose modules that build into a minor pathway, the title of which will be included in your degree transcript. Details of the minors available and the modules that are included can be found at [http://www.southampton.ac.uk/cip/information\\_for\\_students/minor\\_subjects/index.page?](http://www.southampton.ac.uk/cip/information_for_students/minor_subjects/index.page?)

## Progression Requirements

The programme will follow the University's regulations for ***Progression, Determination and Classification of Results: Undergraduate and Integrated 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.

Associated with your programme you will be able to access:

- Module co-ordinators support. Module co-ordinators will be available at designated times during the week to discuss issues related to the particular modules you are studying at the time. This will be in addition to class contact time.
- Personal tutor. As soon as you register on this programme, you will be allocated a personal tutor. S/he is a member of the academic team and will be available to discuss general academic issues related to the programme as well as offer advice and support on any personal issues which may affect your studies.
- Module handbooks/outlines. These will be available at the start of each module (often in online format). The Handbook includes the aims and learning outcomes of the module, the methods of assessment, relevant background material to the module and a session-by-session breakdown of the module together with appropriate reading lists.
- Within the Faculty, administrative support is provided by your Student Office which deals with student records and related issues and with queries related to your specific degree programme.

## 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:

- Completing student surveys for each module of the programme.
- Acting as a student representative on various committees, e.g. Staff - Student Liaison Committees,

Faculty Education Committee OR providing comments to your student representative to feedback on your behalf.

- Serving as a student representative on Faculty Scrutiny Groups for programme validation.
- Taking part in programme validation meetings by joining a panel of students to meet with the Faculty Scrutiny Group.

The ways in which the quality of your programme is checked, both inside and outside the University, are:

- Regular annual module and programme reports which are monitored by the School.
- Programme validation, normally every five years.
- External examiners, who produce an annual report.
- Professional body accreditation (British Psychological Society), reviewed on a regular basis.
- A national Research Excellence Framework (our research activity contributes directly to the quality of your learning experience).
- Institutional Review by the Quality Assurance Agency.

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

## Criteria for admission

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The University's Admissions Policy (see [www.southampton.ac.uk/admissions-policy](http://www.southampton.ac.uk/admissions-policy)) applies equally to all programmes of study. The following are the typical entry criteria we use for selecting candidates for admission to our programmes.

### Entry Requirements

These requirements are reviewed annually by our Admissions team. Those stated below were correct as of July 2015.

#### GCSEs:

We require GCSE level maths (grade A) if you did not take it at AS or A level. Grades A\*-C in English and sciences. If you lack these formal qualifications, your aptitude for the course will be assessed at interview. International students whose first language is not English must have already attained the necessary standard in English – see English Language Proficiency section below.

#### A Levels:

The A-level requirement is set at AAB or equivalent grades. Students must have at least two science A-levels, of which Biology must be one.

### Alternative Qualifications

Our admissions requirement is normally defined on the basis of A/AS levels, but equivalent qualifications are accepted. Students with non-traditional academic backgrounds are recruited through the Foundation Year, and overseas students with a variety of qualifications are accepted.

We will also accept applications from candidates offering other equivalent qualifications including Scottish and Irish Highers, European and International Baccalaureate, Access and Foundation courses and overseas qualifications.

More information on the entry requirements for Ecology can be found via the biological sciences undergraduate webpage here - <http://www.southampton.ac.uk/biosci/undergraduate/courses.page>

### English Language Proficiency

All programmes at the University of Southampton are taught and assessed in the medium of English (other than those in modern foreign languages). Therefore, all applicants must demonstrate they possess at least a minimum standard of English language proficiency. Our minimum standard entry requirements are an IELTS Band C, i.e.

Overall	Reading	Writing	Speaking	Listening
6.5	5.5	5.5	5.5	5.5



Information on all acceptable English Language Tests can be found on the University website:  
[www.southampton.ac.uk/admissions-language](http://www.southampton.ac.uk/admissions-language)

### Recognition of Prior Learning (RPL)

The University has a Recognition of Prior Learning Policy. It may be possible to recognise formal credit for learning you have acquired in the past through formal study and/or through work and other life experiences. Your application will be considered on individual merit and you may be asked to attend an interview.

### Mature applicants:

Studying for a degree later in life can be extremely rewarding and mature students are often among our most successful.

If you are over 21 and feel you would benefit from degree-level studies, we can be more flexible about our entry requirements. For full-time courses, selectors will expect you to demonstrate your commitment by means of some recent serious study, for example, one or two A level passes, successful completion of an Open University foundation course or an appropriate Access course. Your application will be considered on individual merit and you may be asked to attend an interview.

Another popular option is to follow a certificate or diploma programme. These are available on a part time basis and most can be taken in the evenings, enabling you to continue to earn an income while you are studying.

## Career Opportunities

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With a MSci. Ecology & Conservation degree you could be expected to find work in the following areas:

- Ecology
- Research
- Teaching
- Conservation and the environment
- Agriculture
- Industry
- Journalism

## External Examiners(s) for the programme

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**Name** Prof. Claire Grierson  
**Institution** University of Bristol

**Name** Dr Sebastian Shimeld  
**Institution.** University of Oxford

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 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 (or other appropriate guide) or online at (give URL).

## Appendix 1: Learning outcomes and Assessment Mapping

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## Appendix 2:

### Additional Costs

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 typically also have to pay for the items listed in the table below

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 <http://www.calendar.soton.ac.uk/>.

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
Approved Calculators		Candidates may use calculators in the examination room only as specified by the University and as permitted by the rubric of individual examination papers.
Stationery		You will be expected to provide your own day-to-day stationary items, e.g. pens, pencils, notebooks, etc. Any specialist stationery items will be specified under the Additional Costs tab of the relevant module profile.
Textbooks		Where a module specifies core texts these should generally be available on the reserve list in the library. However due to demand, students may prefer to buy their own copies. These can be purchased from any source.  Some modules suggest reading texts as <b>optional</b> 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.
Equipment and Materials	Laboratory and Field Equipment and Materials:	All materials required for laboratory or field work are provided. Where necessary, suitable specialist safety equipment will be provided.
IT	Computer Discs or USB drives	Students are expected to provide their own portable data storage device.
	Software Licenses	All software is provided
	Hardware	It is advisable that students provide their own laptop or personal computer, although shared facilities are available across the University campus.
Clothing	Lab Coats and safety spectacles	One laboratory coat and a pair of safety spectacles are provided at the start of the programme to each student. If these are lost the student must replace them at their own expense. The Students Union Shop stock these items.
	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.
Printing and Photocopying Costs		Coursework such as essays; projects; dissertations may be submitted on line. In the majority of cases, though, students will be asked to provide a printed copy. The University printing costs are currently:

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
		<p>A4 - 4p per side (black and white) or 18p per side (colour)  A3 - 8p per side (black and white) or 35p per side (colour)</p> <p>Please Note: Paper sizes not recognised by the printing devices will prompt you to select the size and then charge a minimum of 50p per black and white copy and a maximum of £1 per colour copy.</p> <p>You can pay for your printing by using the money loaders or by using print copy payment service by going to <a href="http://www.printcopypayments.soton.ac.uk">www.printcopypayments.soton.ac.uk</a>  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>The <a href="#">University Print Centre</a> also offers a printing and copying service as well as a dissertation/binding service. Current printing and copying costs can be found <a href="#">here</a>. They also provide a large format printing service, e.g. Academic posters. Details of current costs can be found <a href="#">here</a>.</p>
<b>Fieldwork: Logistical costs</b>	Accommodation:	<p>For <i>compulsory</i> residential fieldcourses accommodation and travel are normally provided though where necessary, you will be expected to cover the cost of getting to and from the departure point which may be an airport. You are usually expected to cover the costs of food and drink, although some courses may include meals.</p> <p>For <i>optional</i> fieldcourses, you may be asked to make a contribution to the travel and/or accommodation costs.</p> <p>Undergraduates are automatically covered under the University's travel insurance whilst on organised and supervised fieldcourses. Those travelling independently in connection with their programme can be included under the University's travel insurance upon application - there may be a cost attached to this.</p> <p>There are also opportunities to undertake fieldcourses with another organisation, e.g. Operation Wallacea - for example see <a href="#">here</a>. Where necessary students will need to arrange and pay for any vaccinations.</p> <p>Specific details on what additional costs there are detailed in the individual module profiles which can be found under the modules tab of the <a href="#">programmes details</a> of the relevant academic unit.</p>
	Insurance (travel/health):	
	Travel Costs:	
	Immunisation/vaccination costs:	
	Other:	
<b>Placements (including Industrial Year out)</b>		<p>Students who choose to go on an industrial placement at the end of Part 2 can expect to cover costs for health and travel insurance, accommodation and living expenses; travel costs; visa costs.</p> <p>This will vary depending on which country you are travelling to.</p>
<b>Parking Costs</b>		<p>There may be a requirement to undertake work at Southampton General Hospital (SGH), for example during a final year research project. Students may</p>

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
		need to cover costs for transport to travel to SGH or for car parking.
Other	Travel Costs	Students who opt to undertake a module delivered at Marwell Wildlife will be responsible for their own travel expenses.

#### Revision History

1. Minor revisions (including title) 10 July 2007 (SCK)
2. New Brand added July 2008
3. Updated to reflect University restructuring June 2011 (AB)
4. Revisions approved by Senate 19 June 2013 as part of new programme validation process
5. Minor changes made to form guidance on completion of Intended Learning Outcomes, and Learning outcomes and Assessment Mapping document template, for clarity; and changes to wording of support for student learning section, altering to second person throughout – agreed with the Chair and to be reported to UPC October 2013
6. Version 2013/14 Academic Year CQA
7. Minor updates April 2019 following FEC approval