

# Programme Specification

## BSc Environmental Sciences and Master of Environmental Sciences 2017/18

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
Accreditation details	Institution of Environmental Sciences
Final award	BSc (Honours) MEnvSci (Honours)
Name of award	Bachelor of Science (Honours) Master of Environmental Sciences
Interim Exit awards	Certificate of Higher Education Diploma of Higher Education Bachelor of Science (Ordinary) BSc (Hons) (for MEnvSci only)
FHEQ level of final award	FHEQ levels 6 BSc and level 7 MEnvSci
UCAS code	F900 (BSc) F902 (MEnvSci)
QAA Subject Benchmark or other external reference	Quality Assurance Agency's Benchmark for Earth Sciences/ Environmental Sciences and Environmental Studies (ES3)/Quality Assurance Agency's National Qualifications Framework (NQF).
Director of Programme	Dr Patrick Osborne
Programme Coordinator	Malcolm Hudson/Patrick Osborne
Date specification was written	07/04/2014
Date programme was validated	July 2014
Date specification last updated	August 2017

## Programme Overview

### Brief outline of the programme

These programmes are designed to provide for flexibly structured and coherent study that prepares you for employment in a variety of careers. The programmes require you to develop as an autonomous and reflective environmental scientist. Studying towards either programme fosters the development of an independent approach to your work, in terms of both your learning and research, with more opportunities to do so on the longer MEnvSci programme.

### Learning and teaching

The wide variety of teaching and learning methods employed in our environmental science programmes include lectures, seminars, field exercises, field courses and activities such as placements within industry. Several modules involve group exercises where you learn not only about the subject but also how to operate as an effective team, managing your time and assigning roles efficiently.

## Assessment

The wide variety of teaching approaches inevitably leads to an equally wide breadth of assessment methods. Students will be assessed through coursework in the form of essays, reports, policy briefs, impact statements, ISO14001 audits, grant applications, literature reviews, journal articles and presentations, as well as practical and written exams, both unseen and open book.

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 programmes are:

1. To provide you with a thorough understanding of the functioning and management of the environment, based on firm scientific foundations.
2. To give you the opportunity to develop an extensive and in-depth specialist knowledge and understanding in a chosen area of the environmental sciences, whilst maintaining a broader view of the environment on an interdisciplinary and multidisciplinary basis.
3. To provide you with extensive knowledge and understanding of the interactions of the environment and society.
4. To enable you to undertake an independent research project.
5. To produce graduates who can think critically about the environment in the contemporary world and are able to pursue independent study in the subject with enthusiasm.
6. To provide an education suitable for a wide variety of careers in the environment, including training for higher degrees.
7. To provide the key skills transferable to other disciplines so that you are capable of reaching your full potentials and play a full role in society including careers in academic and/or professional environmental fields, and in non-environmental science professions, industry and commerce.

## Programme Learning Outcomes

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The programmes provide opportunities for you to develop and demonstrate knowledge and understanding, skills and other attributes. The programmes are interdisciplinary and multidisciplinary and provide opportunities for choice, but have an integrated set of learning outcomes formulated with reference to the QAA benchmark statement for Earth Sciences, Environmental Sciences and Environmental Studies (ES3). The BSc and MEnvSci programmes are differentiated on the learning outcomes associated with level 7 modules (e.g. coded as ENV56xxx), the latter require a higher level of understanding and achievement although still focussed on the requirements of the ES3 benchmark. Your options are selected to relate to a major theme within environmental science, chosen from one of four "pathways": Aquatic Environments and Resources, Biodiversity and Conservation, Sustainable Environmental Management, or Environmental Change. Selection of modules is guided by detailed documentation available in printed and electronic formats and is supported by your tutor.

**Learning outcomes associated with the BSc programmes at levels 4 to 6 (i.e. all ENVS modules coded 1xxx to 3xxx):**

## Knowledge and Understanding

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- A1 the need for both a multi-disciplinary and an interdisciplinary approach in advancing knowledge and understanding of Earth systems, drawing, as appropriate, from the natural and the social sciences
- A2 the processes which shape the natural world at different temporal and spatial scales and their influence on and by human activities
- A3 the terminology, nomenclature and classification systems used in environmental science
- A4 methods of acquiring, interpreting and analysing environmental science information with a critical understanding of the appropriate contexts for their use
- A5 issues concerning the availability and sustainability of resources, for example, the different value sets relating to the Earth's resources as commodities and/or heritage
- A6 the contribution of environmental science to debate on environmental issues and how knowledge of these forms the basis for informed concern about the Earth and its people
- A7 the contribution of environmental science to the development of knowledge of the world we live in
- A8 the applicability of environmental science to the world of work

### *Teaching and Learning Methods*

Acquisition of core knowledge and understanding is through lectures, seminars, tutorials, field and laboratory classes, workshops, and independent study and research. You are encouraged from an early stage to supplement and consolidate your understanding and knowledge by independent study. Strong emphasis is also placed on the importance of using the flexibility of the programme to build an individual portfolio of knowledge and skills and which reflects your particular interest(s) in the environment.

### *Assessment methods*

Knowledge is assessed throughout the programme through a combination of formative methods (to provide you with constructive feedback to help you develop your skills and understanding) and summative methods (to assess your performance). Formative assessment takes the form of feedback on essays, practical reports and oral presentations, and is stressed during earlier stages of study. Formative assessment is delivered in part through informal assessment of work that does not contribute directly to your performance in modules (e.g. class debriefings on oral presentations). Summative assessment takes the form of unseen examinations and tests, multiple choice examinations, short answer papers, and various project work and coursework. You will also be given feedback on your work as part of summative assessment.

## Subject Specific Intellectual and Research Skills

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- B1 recognising and using subject-specific theories, paradigms, concepts and principles
- B2 analysing, synthesising and summarising information critically, including prior research
- B3 collecting and integrating several lines of evidence to formulate and test hypotheses
- B4 applying knowledge and understanding to complex and multidimensional problems in familiar and unfamiliar contexts
- B5 recognising the moral and ethical issues of investigations and appreciating the need for professional codes of conduct

### *Teaching and Learning Methods*

Intellectual skills are developed through lectures, seminars, tutorials, workshops, discussion groups (verbal and internet), and laboratory and practical exercises. Independent reading from a wide range of sources (printed and electronic) covering a variety of issues (linked to formal module material and general environmental issues) also contributes to the development of your intellectual skills by exposing you to differing opinions and perspectives. Applications of theoretical concepts to real-life situations are explored and evaluated by compilation of a portfolio, including personal and professional skills portfolios, and experiential learning assessment.

## **Assessment**

A wide range of assessment methods is used to assess intellectual skills, including formal unseen examinations, coursework, oral & poster presentations, internet discussions, and peer assessment.

## **Transferable and Generic Skills**

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- C1 receiving and responding to a variety of information sources (eg textual, numerical, verbal, graphical)
- C2 communicating appropriately to a variety of audiences in written, verbal and graphical forms
- C3 appreciating issues of sample selection, accuracy, precision and uncertainty during collection, recording and analysis of data in the field and laboratory
- C4 preparing, processing, interpreting and presenting data, using appropriate qualitative and quantitative techniques and packages including geographic information systems
- C5 solving numerical problems using computer and non-computer-based techniques
- C6 using the internet critically as a means of communication and a source of information
- C7 identifying individual and collective goals and responsibilities and performing in a manner appropriate to these roles
- C8 recognising and respecting the views and opinions of other team members
- C9 evaluating performance as an individual and a team member
- C10 developing the skills necessary for self-managed and lifelong learning (eg working independently, time management and organisation skills)
- C11 identifying and working towards targets for personal, academic and career development
- C12 developing an adaptable and flexible approach to study and work

## **Teaching and Learning Methods**

Development of key skills is through training sessions, workshops, tutorials and through self-evaluation using *pro-forma* learning skills portfolios. Key skills are delivered through core subjects and are emphasized early in the programme to ensure that these skills are in place for use throughout later stages of study. Completion of the various tasks required in modules primarily aiming to deliver knowledge and understanding also contributes to development of these skills, for example, by self-reflection of feedback, organising time to meet deadlines, and use of ICT to produce written work and deliver oral or visual presentations. Written communication skills are practised in all modules. In addition to work done by individuals, tasks are also undertaken in groups in some modules, for which training is at an early stage in the programme (part I).

## **Assessment methods**

Skills are formatively assessed through written reports and oral presentations, practical and laboratory reports. Summative assessment is through unseen examinations, extended essays and completion of a research project, including an interim progress report, and work-based learning skills portfolios.

## **Subject Specific Practical Skills**

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- D1 planning, conducting, and reporting on environmental investigations, including the use of secondary data
- D2 collecting, recording and analysing data using appropriate techniques in the field and laboratory
- D3 undertaking field and laboratory investigations in a responsible and safe manner, paying due attention to risk assessment, rights of access, relevant health and safety regulations, and sensitivity to the impact of investigations on the environment and stakeholders
- D4 referencing work in an appropriate manner

### ***Teaching/learning methods***

Subject practical skills are developed early in the programme (part I) to ensure you have an appropriate level of competence, regardless of your previous training and experience. Skills are developed to a higher level in a compulsory field course (part III). Field courses focus on field techniques and practices, and on working safely. Skills acquired may underpin practical exercises and projects in optional modules and may underpin the final part research project. The use of published data and information is used to provide context and comparison for practical and research projects, along with use of secondary data.

### ***Assessment***

Formative assessment of knowledge acquired is through formal written reports, oral presentations, inspection of field notebooks and inspection of the risk assessments completed prior to undertaking field surveys. Summative assessment is primarily made through written reports assessments on completion of projects.

**Learning outcomes associated with the MEnvSci programmes at level 7 (i.e. all ENVS modules coded 6xxx):**

### **Knowledge and Understanding**

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Having successfully completed this programme you will gain a:

- A1 full appreciation of the need for multi-disciplinary and interdisciplinary approaches to advancing knowledge and solving problems in environmental science, drawing on the natural and the social sciences
- A2 deep understanding of the processes that shape the natural world at different temporal and spatial scales and their influence on and by human activities
- A3 strong familiarity with the terminology, nomenclature and classification systems used in environmental science
- A4 comprehensive understanding of appropriate methods for acquiring, interpreting and analysing environmental science information
- A5 deep understanding of the issues concerning the availability and sustainable use of the earth's resources
- A6 deep knowledge of the contribution environmental science makes to debate on environmental issues and how knowledge of these forms the basis for informed concern about the Earth and its people
- A7 comprehensive understanding of the contribution of environmental science to knowledge
- A8 familiarity with environmental science in the workplace and career paths open to environmental scientists

### ***Teaching and Learning Methods***

Acquisition of core knowledge and understanding is through lectures, seminars, tutorials, field and laboratory classes, workshops, and independent study and research. You are encouraged from an early stage to supplement and consolidate your understanding and knowledge by independent study. Strong emphasis is also placed on the importance of using the flexibility of the programme to build an individual portfolio of knowledge and skills and which reflects your particular interest(s) in the environment.

### ***Assessment methods***

Knowledge is assessed throughout the programme through a combination of formative methods (to provide you with constructive feedback to help you develop your skills and understanding) and summative methods (to assess your performance). Formative assessment takes the form of feedback on essays, practical reports and oral presentations, and is stressed during earlier stages of study. Formative assessment is delivered in part through informal assessment of work that does not contribute directly to your performance in modules (e.g. class debriefings on oral presentations). Summative assessment takes the form of unseen examinations and tests, multiple choice examinations, short answer papers, and various project work and coursework. You will also be given feedback on your work as part of summative assessment.

## Subject Specific Intellectual and Research Skills

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- B1 recognising, using and formulating subject-specific theories, paradigms, concepts and principles
- B2 analysing, synthesising and summarising information critically to a high standard, e.g. suitable for publication
- B3 collecting and integrating multiple lines of evidence to formulate, test and then generate new hypotheses
- B4 applying knowledge and understanding to complex real-world problems in unfamiliar contexts and within limited time-frames
- B5 carrying out assessments of the moral and ethical issues affecting investigations and appreciating the need for professional codes of conduct

### *Teaching and Learning Methods*

Intellectual skills are developed through lectures, seminars, tutorials, workshops, discussion groups (verbal and internet), and laboratory and practical exercises. Independent reading from a wide range of sources (printed and electronic) covering a variety of issues (linked to formal module material and general environmental issues) also contributes to the development of your intellectual skills by exposing you to differing opinions and perspectives. Applications of theoretical concepts to real-life situations are explored and evaluated by compilation of a portfolio, including personal and professional skills portfolios, and experiential learning assessment.

### *Assessment*

A wide range of assessment methods is used to assess intellectual skills, including formal unseen examinations, coursework, oral & poster presentations, internet discussions, and peer assessment.

## Transferable and Generic Skills

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- C1 handling and integrating multiple information sources across multiple platforms, including working with databases in the broadest sense
- C2 communicating appropriately to a variety of audiences in written, verbal and graphical forms to a standard suitable for publication or public consumption to a standard suitable for publication or public consumption
- C3 appreciating issues of sample selection, accuracy, precision and uncertainty during collection, recording and analysis of data in the field and laboratory, and how to overcome them, and how to overcome them
- C4 preparing, processing, interpreting and presenting data, using appropriate qualitative and quantitative techniques and packages including geographic information systems to a level suitable for publication to a level suitable for publication
- C5 solving numerical problems using computer and non-computer-based techniques to a standard comparable to that found in published research articles
- C6 using the internet rapidly, critically and effectively as a means of communication and a source of information
- C7 identifying individual and collective goals and responsibilities and performing in a manner appropriate to these roles
- C8 recognising and respecting the views and opinions of other team members, and dealing effectively with disputes that may arise
- C9 evaluating your own performance as an individual and a team member, and that of others within your team
- C10 developing the advanced skills needed for self-managed learning (e.g. handling multiple conflicting deadlines; responding rapidly and effectively to change; acquiring self-management and organisation skills)
- C11 identifying and working towards targets for personal, academic and career development (e.g. gaining memberships of professional bodies, doing work placements and volunteering)
- C12 developing an adaptable and flexible approach to study and work, especially to meet targets and deadlines, especially to meet targets and deadlines

### ***Teaching and Learning Methods***

Development of key skills is through training sessions, workshops, tutorials and through self-evaluation using *pro-forma* learning skills portfolios. Key skills are delivered through core subjects and are emphasized early in the programme to ensure that these skills are in place for use throughout later stages of study. Completion of the various tasks required in modules primarily aiming to deliver knowledge and understanding also contributes to development of these skills, for example, by self-reflection of feedback, organising time to meet deadlines, and use of ICT to produce written work and deliver oral or visual presentations. Written communication skills are practised in all modules. In addition to work done by individuals, tasks are also undertaken in groups in some modules, for which training is at an early stage in the programme (part I).

### ***Assessment methods***

Skills are formatively assessed through written reports and oral presentations, practical and laboratory reports. Summative assessment is through unseen examinations, extended essays and completion of a research project, including an interim progress report, and work-based learning skills portfolios.

## **Subject Specific Practical Skills**

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Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- D1 planning, conducting, and reporting on environmental investigations at the level of competence expected of a junior researcher or consultant
- D2 collecting, recording and analysing data to an advanced level using up to date techniques in the field, laboratory and for statistical analysis
- D3 carrying out risk and ethics assessments to a high standard before undertaking field and laboratory investigations, and being aware of relevant health and safety regulations, and potential impact of investigations on the environment and people
- D4 referencing work to a very high, prescribed standard as expected in a manuscript sent for publication

### ***Teaching/learning methods***

Subject practical skills are developed early in the programme (part I) to ensure you have an appropriate level of competence, regardless of your previous training and experience. Skills are developed to a higher level in a compulsory field course (part III). Field courses focus on field techniques and practices, and on working safely. Skills acquired may underpin practical exercises and projects in optional modules and may underpin the final year research project. The use of published data and information is used to provide context and comparison for practical and research projects, along with use of secondary data.

### ***Assessment***

Formative assessment of knowledge acquired is through formal written reports, oral presentations, inspection of field notebooks and inspection of the risk assessments completed prior to undertaking field surveys. Summative assessment is primarily made through written reports assessments on completion of projects.

## **Programme Structure**

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### **Typical course content**

The programmes are offered only on a full-time basis. The programmes lead to honours degrees in either BSc Environmental Sciences (3 years) or Master of Environmental Science (4 years). Optional modules comprise a larger part of the programmes in higher years and build around a suite of core Environmental Science modules. Your knowledge and understanding are thus orientated around an area of specialization, aligned with your pathway. The learning outcomes delivered by modules are detailed in the curriculum map. You will qualify to progress through your degree programme on satisfactory achievement at each level of study as outlined briefly below; regulations regarding progression as follows:



- The Regulations of the University of Southampton as detailed in the Calendar (<http://www.calendar.soton.ac.uk/>)
- The specific regulations of the Faculty of Engineering and the Environment
- Any programme specific amendments to the Faculty rules

Teaching is delivered on a semester pattern, each semester being of 14 weeks duration. The last two weeks of each semester are generally set aside for examinations.

A compressed summary of the programmes is shown in the table below. All modules are 7.5 ECTS/15 CATS credit points unless otherwise stated.

Part	BSc (Honours) Environmental Sciences	Master of Environmental Sciences (Honours)
Part I	Four core modules (common to both programmes and all pathways) plus four pathways specific compulsory modules	
	<i>Exit award: Certificate of Higher Education</i>	
Part II	Four core modules (common to both programmes and all pathways), one pathway-specific compulsory modules plus three options	
	<i>Exit award: Diploma in Higher Education</i>	
Part III	One core module (common to both programmes and all pathways)	
	Five pathway-related modules (compulsory or optional depending on pathway)	
	Final year research project (15 ECTS/30 CATS core)	Environmental Field Studies (core) Advanced Quantitative Methods (core)
	<b><i>Final Award: BSc (honours) Environmental Sciences</i></b>	<b><i>Exit award: BSc (honours) Environmental Sciences</i></b>
Part IV	N/A	Work-based Learning (core)
		Advanced research project (30 ECTS/ 60 CATS, core)
		Three pathway-related modules (compulsory or optional depending on pathway)
		<b><i>Final Award: MEnvSci (honours) Environmental Sciences</i></b>

## Special Features of the programme

All Part I students must attend the week-long field course currently held around Exeter which teaches essential field skills. In addition, all MEnvSci students attend a field course currently based around Swanage between their second and third years. This is also available as an option for BSc students. Among their choices, students may select from five curriculum innovation modules (coded UOSM below) provided that they comprise no more than 15 ECTS/30 CATS credits in any one year.

## Programme details

The full list of core, compulsory and optional modules available to environmental science students is laid out in **Appendix 1**.



## 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. Costs that students registered for this programme typically also have to pay for are included in Appendix 2.

In some cases, coursework and/or projects may be submitted electronically. Where it is not possible to submit electronically students will be liable for printing costs, which are detailed in the individual Module Profile and can be found in Appendix 2.

## Progression Requirements

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

Faculty regulations specific to this degree as set out in the University Calendar <http://www.calendar.soton.ac.uk/sectionVIII/fee-ug.html>

This is the definite guide determining progressions. The details below, however, provide a guide to the key features of progression, year by year.

## Intermediate exit points (where available)

You will be eligible for an interim exit award if you complete part of the programme but not all of it, as set out in the information above.

There are the following exit points:

Qualification	Minimum overall credit in ECTS/CATS credits	Minimum ECTS/CATS-Credits required at level of award
Bachelor of Science (Honours)	At least 180/360	45/90
Bachelor of Science (ordinary)	at least 150/300	30/90
Diploma of Higher Education	at least 120/300	45/90
Certificate of HE	at least 60/120	45/90

## Programme outcomes for different exit points

Level 4 (Part I)	You will have a sound knowledge of the basic concepts in Environmental Science and will have learned how to take different approaches to solving problems. You will be able to communicate accurately, and will have the qualities needed for employment requiring the exercise of some personal responsibility.
Level 5 (Part II)	You will have developed a sound understanding of the principles involved in a range of core Environmental Science subjects, and will have learned to apply those principles more widely. Through this, you will have learned to evaluate the appropriateness of different approaches to solving problems. You will have the qualities necessary for employment in situations requiring the exercise of personal responsibility and decision-making.
Level 6 (Part III)  BSc	You will have developed an understanding of a complex body of knowledge relevant to Environmental Science, some of it at the forefront of current developments. Through this, you will have developed analytical techniques and problem-solving skills that can be applied to a range of engineering problems, and learned to communicate these effectively. As an Honours graduate you will be able to evaluate evidence, arguments and assumptions, and to reach sound judgements. You should have the qualities needed for employment in situations requiring the exercise of personal responsibility, and decision-making in complex and unpredictable circumstances.
Level 7 (Part IV)  MEnvSci	Much of the study undertaken at Masters level reflects research at the forefront of Environmental Science. You will have shown originality in the application of knowledge, and you will understand how the boundaries of knowledge are advanced through research. You will be able to deal with complex issues both systematically and creatively, and show originality in tackling and solving problems individually and as part of a team. You will have the qualities needed for employment in circumstances requiring sound judgement, personal responsibility and initiative, in complex and unpredictable professional environments.

## 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 Student Services Centre
- Enabling Services offering assessment and support (including specialist IT support) facilities if you have a disability, dyslexia, mental health issue or specific learning difficulties

- 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 Destinations, 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
- a range of personal support services-: mentoring, counselling, -residence support service, chaplaincy, health service
- 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.

In the Faculty and your Discipline you will be able to access:

- Introductory sessions for all years of the programme.
- Library information retrieval seminar.
- Small group tutorials in Part I of the programmes.
- Personal tutors to assist you with personal problems and to advise on academic issues (contact maintained during periods of studying abroad). A senior tutor is also available.
- Access to academic staff through an open door policy as well as timetabled tutor meetings, appointment system and e-mail.
- Research seminars and invited lectures.
- Faculty Student Office for the administration of your programme.
- Examples of past Advanced Research Project reports to help guide your own work

## 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 evaluation questionnaires for each module of the programme
- Acting as a student representative on various committees, e.g. Staff-Student Liaison Committees, Faculty Programmes Committee OR providing comments to your student representative to feed back 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 module and programme reports which are monitored by the Faculty
- Programme validation, normally every five years.
- External examiners, who produce an annual report
- A national Research Assessment Exercise (our research activity contributes directly to the quality of your learning experience)
- Institutional Review by the Quality Assurance Agency

## Criteria for admission

The University's Admissions Policy [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 to be used for selecting candidates for admission. The University's approved equivalencies for the requirements listed below will also be acceptable. The entry criteria for our programmes are reviewed annually by the Faculty. Those stated below were correct as of July 2017. Applicants should refer to their specific offer conditions on their offer letter.

### Undergraduate programmes

Qualification	Grades	Subjects required	Subjects not accepted	EPQ Alternative offer (if applicable)	Contextual Alternative offer (if applicable)
GCE A level	ABB	Two Science from: Geography, Biology, Chemistry, Physics, Mathematics, Psychology, Geology, Environmental Studies	General Studies Critical Thinking Use of Maths Thinking Skills	One A level grade (or equivalent) lower combined with EPQ at grade B or higher.	BBB
BTEC	DDD including relevant science modules	Science Modules	Na	Na	DDM including relevant science modules
International Baccalaureate	32 Points overall, 16 at Higher Level including 5 in a Higher Level science module	Higher Level Science Module	Na	Na	30 Points overall, 16 at Higher Level including 5 in a Higher Level science module
GCSE	C	English			
	C	Mathematics			

### Mature applicants

Mature applicants are considered on an individual basis. Depending upon the date of academic qualification achieved applicants may be offered the Science Foundation Year.

### Recognition of Prior Learning (RPL)

The University has a [Recognition of Prior Learning Policy](#). Entry to Part II only is acceptable upon completion of a comparative Part I and / or Part II at another institution. Each case is assessed on an individual assessment based on copies of transcripts and Learning outcomes.

### English Language Proficiency

As per the University's Admissions policy on English Language requirements, found here, [www.southampton.ac.uk/admissions-language](http://www.southampton.ac.uk/admissions-language) the requirements for this programme are:  
International English Language Testing System (IELTS) – Band C

Overall	Reading	Writing	Speaking	Listening
6.5	5.5	5.5	5.5	5.5

## University Commitment

The University will at all times seek to operate admissions regulations that are fair and are in accordance with the law of the United Kingdom, and the University's Charter, Statutes, Ordinances and Regulations.

This includes specific compliance with legislation relating to discrimination (e.g. Equality Act 2010) and the University's Equal Opportunities Policy Statement. This includes a commitment that the University will:

- actively assist groups that experience disadvantage in education and employment to benefit from belonging to the University
- actively seek to widen participation to enable students that do not traditionally participate in Higher Education to do so
- ensure that admission procedures select students fairly and appropriately according to their academic ability and that the procedure is monitored and regularly reviewed.

## Entry Requirements

A typical offer for entry to our BSc and MEnvSci degrees may be found on the University website at [https://www.southampton.ac.uk/engineering/undergraduate/courses/environmental\\_sciences\\_list.page?](https://www.southampton.ac.uk/engineering/undergraduate/courses/environmental_sciences_list.page?)

## Alternative qualifications

BTEC National Diplomas: Considered on individual merit. Science Access courses are considered and typically distinctions are required in all level 3 units. Science foundation courses are also considered with typically 70% required overall and including 70% in science subjects.

International Baccalaureate: 32 points overall with 16 points at Higher Level including 10 points from two science subjects from biology, chemistry, physics, geography, psychology and mathematics.

## International applications

We are always happy to receive other UK and international applications from candidates with alternative qualifications, which are assessed on individual merit. Applications from mature candidates and candidates resident in other European countries and overseas are welcome and will be considered on an individual basis. If you are unsure about our entry criteria, please contact our admissions staff who would be happy to provide advice in advance of your application.

In addition, non-native speakers of English require evidence of sufficient competence in English, usually equivalent to an overall IELTS score of 6.5 with a minimum of 5.5 in each category.

## Equality and diversity

In accordance with the University's Equality and Diversity Policy, all reasonable effort will be made to ensure that no prospective or existing student is treated less favourably on the grounds of age, race, colour, nationality, ethnic origin, creed, disability, HIV status, sexual orientation, gender, marital or parental/carer status, political belief or social or economic class, or any other type of discrimination.

Disabled applicants will be treated according to the same procedures as any other applicant with the added involvement of Enabling Services to assess their needs. The programme may require adaptation for students with disabilities (e.g. hearing impairment, visual impairment, mobility difficulties, dyslexia), particularly the practical laboratory sessions, and we will attempt to accommodate students wherever possible.

## Career Opportunities

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Students will gain a detailed understanding of the core areas of environmental science throughout the three or four years of study. Potential career routes include specialising in environmental management, sustainability, carbon management, water management, biodiversity and waste management, leading to jobs in large international consultancies, local environmental consultancies, research organisations, environmental regulators, non-governmental organisations, schools and academia (e.g. MSc and PhD degrees), local authorities, and government bodies among others. For students who decide that they do not wish to pursue a career in environmental science, they will find that their broad training and exposure to key skills provides an excellent springboard for other professions.

## External Examiners(s) for the programme

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**Name** Dr Karen Anderson

**Institution.** University of Exeter

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.

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**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 (<http://www.southampton.ac.uk/studentservices/academic-life/faculty-handbooks.page> ).

### 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. R E Stanton, proofing of new template June 2014\_CQA\_150714
7. Update to Programme Overview (CMA Changes) – September 2015
8. CQA textual updates August 2016, May 2017

# BSc Environmental Sciences and Master of Environmental Sciences 2017/18

## Appendix 1: Programme Structure

The information within this Appendix is liable to change in minor ways from year to year. It is accurate at the time of writing.

Core = must be taken and must be passed at 40% or higher.

Compulsory (Comp) = must be taken and must be passed at the University pass mark or higher.

### BSc Aquatic Environments & Resources

#### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1006	Introduction to Marine Ecology	7.5/15	Comp	2	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

#### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2003	Freshwater Ecosystems	7.5/15	Comp	1	5
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5

#### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CHEM1008	Environmental Chemistry 1	15	O	1	4
BIOL2004	Pure and Applied Population Ecology	15	O	1	5
BIOL2039	Animal Behaviour	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5



GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	2	5
GEOG2037	Global Water Resources	15	O	2	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2006	Phytoplankton and Primary Production	15	O	2	5
SOES2017	Ecological Processes in The Marine Benthos	15	O	2	5
SOES2018	Geochemistry	15	O	1	5
SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
FEEG3003	Individual Project	15/30	Core	Full year	6

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	15	O	1	6
BIOL3053	Biodiversity and Conservation	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
CENV3059	Water and Wastewater Engineering 1	15	O	2	6
ENVS3011	Environmental Field Studies	15	O	NS/1	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3020	Glaciers and Glaciation	15	O	1	6
GEOG3023	River Basin Management and Restoration	15	O	2	6
GEOG3047	Complex Social–ecological systems: Past, present and future	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6

SOES3011	Biogeochemical Cycles in the Earth System	15	O	1	6
SOES3013	Zooplankton Ecology and Processes	15	O	1	6
SOES3014	Coastal Sediment Dynamics	15	O	1	6
SOES3015	Palaeoclimate Change	15	O	2	6
SOES3017	Marine Fisheries Ecology	15	O	2	6
ENVS6034	Advanced Quantitative Methods	15	O	2	7

## BSc Biodiversity and Conservation

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1006	Introduction to Marine Ecology	7.5/15	Comp	2	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2004	Pure and Applied Population Ecology	7.5/15	Comp	1	5
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2001	Evolution	15	O	2	5
BIOL2007	Plant Development and Function	15	O	2	5
BIOL2039	Animal Behaviour	15	O	1	5
BIOL2040	Neural Basis of Behaviour	15	O	2	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5

GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2006	Phytoplankton and Primary Production	15	O	2	5
SOES2017	Ecological Processes in The Marine Benthos	15	O	2	5
SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	7.5/15	Comp	1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
FEEG3003	Individual Project	15/30	Core	Full year	6

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3010	Topics in Ecology and Evolution	15	O	2	6
BIOL3051	Applied Plant Biology	15	O	2	6
BIOL3053	Biodiversity and Conservation	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
ENVS3011	Environmental Field Studies	15	O	NS/ 1	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
SOES3013	Zooplankton Ecology and Processes	15	O	1	6
ENVS6034	Advanced Quantitative Methods	15	O	2	7

## BSc Environmental Change

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1001	The Earth System	7.5/15	Comp	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5
GEOG2032	Global Climate Change	7.5/15	Comp	1	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CHEM1008	Environmental Chemistry 1	15	O	1	4
DEMO2008	Population and Reproductive Health	15	O	2	5
DEMO2010	Population in Developing Societies	15	O	1	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2037	Global Water Resources	15	O	2	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2003	Geohazards and Earth Resources	15	O	2	5
SOES2018	Geochemistry	15	O	1	5

SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
DEMO3008	Population and the Environment	7.5/15	Comp	1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
FEEG3003	Individual Project	15/30	Core	Full year	6

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
ENVS3011	Environmental Field Studies	15	O	NS/ 1	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS-Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
ENVS6034	Advanced Quantitative Methods	15	O	2	6
GEOG3020	Glaciers and Glaciation	15	O	1	6
GEOG3047	Complex Socio-ecological systems: Past, present and future	15	O	1	6
GEOG3057	Adapting to Climate Change and Weather Hazards	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
SOES3011	Biogeochemical Cycles in the Earth System	15	O	1	6
SOES3014	Coastal Sediment Dynamics	15	O	1	6
SOES3015	Palaeoclimate Change	15	O	2	6

## BSc Sustainable Environmental Management

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1001	The Earth System	7.5/15	Comp	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5
SOES2003	Geohazards and Earth Resources	7.5/15	Comp	2	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2001	Evolution	15	O	2	5
BIOL2004	Pure and Applied Population Ecology	15	O	1	5
DEMO2008	Population and Reproductive Health	15	O	2	5
DEMO2010	Population in Developing Societies	15	O	1	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5

UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5
UOSM2026	Ethics in Science, Engineering and Technology: Jekyll and Hyde	15	O	2	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
ENVS3014	Sustainable Resource Management	7.5/15	Comp	1	6
FEEG3003	Individual Project	15/30	Core	Full year	6

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
CENV3059	Water and Wastewater Engineering 1	15	O	2	6
DEMO3008	Population and the Environment	15	O	1	6
ENVS3011	Environmental Field Studies	15	O	NS/1	6
ENVS3015	GIS-Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3023	River Basin Management and Restoration	15	O	2	6
GEOG3047	Complex Socio-ecological systems: Past, present and future	15	O	1	6
GEOG3057	Adapting to Climate Change and Weather Hazards	15	O	1	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
ENVS6034	Advanced Quantitative Methods	15	O	2	7



## MEnvSci Aquatic Environments & Resources

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1006	Introduction to Marine Ecology	7.5/15	Comp	2	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2003	Freshwater Ecosystems	7.5/15	Comp	1	5
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2004	Pure and Applied Population Ecology	15	O	1	5
BIOL2039	Animal Behaviour	15	O	1	5
CHEM1008	Environmental Chemistry 1	15	O	1	4
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	1	5
GEOG2037	Global Water Resources	15	O	2	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2006	Phytoplankton and Primary Production	15	O	2	5
SOES2017	Ecological Processes in The Marine Benthos	15	O	2	5

SOES2018	Geochemistry	15	O	1	5
SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS3011	Environmental Field Studies	7.5/15	Core	NS/ 1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
ENVS6034	Advanced Quantitative Methods	7.5/15	Core	2	7

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	15	O	1	6
BIOL3053	Biodiversity and Conservation	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
CENV3059	Water and Wastewater Engineering 1	15	O	2	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3020	Glaciers and Glaciation	15	O	1	6
GEOG3023	River Basin Management and Restoration	15	O	2	6
GEOG3047	Complex Social–ecological systems: Past, present and future	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
SOES3011	Biogeochemical Cycles in the Earth System	15	O	1	6
SOES3013	Zooplankton Ecology and Processes	15	O	1	6
SOES3014	Coastal Sediment Dynamics	15	O	1	6
SOES3015	Palaeoclimate Change	15	O	2	6
SOES3017	Marine Fisheries Ecology	15	O	2	6

#### Part IV Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS6009	Advanced Research Project	30/60	Core	Full year	7
ENVS6010	Work-Based Learning	7.5/15	Core	1	7

#### Part IV Optional Modules

Note that a maximum of 15 ECTS/CATS of optional modules at level 7 are permitted.

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CENV6084	Coastal & Maritime Engineering and Energy	15	O	1	7
CENV6085	Waste Resource Management	15	O	2	7
CENV6090	Energy Resources and Engineering	15	O	1	7
CENV6154	Groundwater Hydrology and Contamination	15	O	1	7
CENV6158	Water & Wastewater Engineering	15	O	2	7
CENV6162	Water Resources Planning and Management	15	O	1	7
ENVS6011	Environmental Management Systems	15	O	1	7
ENVS6023	Air Quality & Environmental Pollution	15	O	1	7
ENVS6024	River and Fisheries Restoration	15	O	2	7
ENVS6029	Environmental Modelling & Spatial Analysis	15	O	2	7
SOES6007	Biogeochemical Cycles in the Earth System	15	O	1	7
SOES6011	Modelling Coastal Processes	15	O	2	7
SOES6023	Environmental Radioactivity & Radiochemistry	15	O	2	7
SOES6027	Global Ocean Monitoring	15	O	2	7
SOES6047	Global Climate Cycles	15	O	Term 3	7

## MEnvSci Biodiversity and Conservation

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1006	Introduction to Marine Ecology	7.5/15	Comp	2	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2004	Pure and Applied Population Ecology	7.5/15	Comp	1	5
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2001	Evolution	15	O	2	5
BIOL2007	Plant Development and Function	15	O	2	5
BIOL2039	Animal Behaviour	15	O	1	5
BIOL2040	Neural Basis of Behaviour	15	O	2	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	1	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2006	Phytoplankton and Primary Production	15	O	2	5

SOES2017	Ecological Processes in The Marine Benthos	15	O	2	5
SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

#### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	7.5/15	Comp	1	6
ENVS3011	Environmental Field Studies	7.5/15	Core	NS/ 1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
ENVS6034	Advanced Quantitative Methods	7.5/15	Core	2	6

#### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3010	Topics in Ecology and Evolution	15	O	2	6
BIOL3051	Applied Plant Biology	15	O	2	6
BIOL3053	Biodiversity and Conservation	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
SOES3013	Zooplankton Ecology and Processes	15	O	1	6

#### Part IV Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS6009	Advanced Research Project	30/60	Core	Full year	7
ENVS6010	Work–Based Learning	7.5/15	Core	1	7

## Part IV Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CENV6085	Waste Resource Management	15	O	2	7
CENV6090	Energy Resources and Engineering	15	O	1	7
CENV6158	Water & Wastewater Engineering	15	O	2	7
ENVS6003	Freshwater Ecosystems	15	O	1	7
ENVS6011	Environmental Management Systems	15	O	1	7
ENVS6023	Air Quality & Environmental Pollution	15	O	1	7
ENVS6024	River and Fisheries Restoration	15	O	2	7
ENVS6029	Environmental Modelling & Spatial Analysis	15	O	2	7
SOES6007	Biogeochemical Cycles in the Earth System	15	O	1	7
SOES6011	Modelling Coastal Processes	15	O	2	7
SOES6022	Microfossils, Environments and Time	15	O	1	7
SOES6027	Global Ocean Monitoring	15	O	2	7
SOES6047	Global Climate Cycles	15	O	Term 3	7

## MEnvSci Environmental Change

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1001	The Earth System	7.5/15	Comp	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5
GEOG2032	Global Climate Change	7.5/15	Comp	1	5

## Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CHEM1008	Environmental Chemistry 1	15	O	1	4
DEMO2008	Population and Reproductive Health	15	O	2	5
DEMO2010	Population in Developing Societies	15	O	1	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2037	Global Water Resources	15	O	2	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
SOES2003	Geohazards and Earth Resources	15	O	2	5
SOES2018	Geochemistry	15	O	1	5
SOES2024	Coastal and Estuarine Oceanography I	15	O	1	5
SOES2027	Coastal and Estuarine Oceanography 2	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5
UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5

## Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
DEMO3008	Population and the Environment	7.5/15	Comp	1	6
ENVS3011	Environmental Field Studies	7.5/15	Core	NS/1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
ENVS6034	Advanced Quantitative Methods	7.5/15	Core	2	7

## Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
ENVS3014	Sustainable Resource Management	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3020	Glaciers and Glaciation	15	O	1	6



GEOG3047	Complex Socio-ecological systems: Past, present and future	15	O	1	6
GEOG3057	Adapting to Climate Change and Weather Hazards	15	O	1	6
GEOG3068	Biogeography	15	O	2	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6
SOES3011	Biogeochemical Cycles in the Earth System	15	O	1	6
SOES3014	Coastal Sediment Dynamics	15	O	1	6
SOES3015	Palaeoclimate Change	15	O	2	6

#### Part IV Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS6009	Advanced Research Project	30/60	Core	Full year	7
ENVS6010	Work-Based Learning	7.5/15	Core	1	7

#### Part IV Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CENV6084	Coastal & Maritime Engineering and Energy	15	O	1	7
CENV6085	Waste Resource Management	15	O	2	7
CENV6088	Transportation Planning: Policies and Methods	15	O	1	7
CENV6090	Energy Resources and Engineering	15	O	1	7
CENV6112	Transport, Energy and the Environment	15	O	1	7
CENV6158	Water & Wastewater Engineering	15	O	2	7
CENV6162	Water Resources Planning and Management	15	O	1	7
ENVS6003	Freshwater Ecosystems	15	O	1	7
ENVS6011	Environmental Management Systems	15	O	1	7
ENVS6023	Air Quality & Environmental Pollution	15	O	1	7
ENVS6024	River and Fisheries Restoration	15	O	2	7
ENVS6029	Environmental Modelling & Spatial Analysis	15	O	2	7
SOES6007	Biogeochemical Cycles in the Earth System	15	O	1	7
SOES6011	Modelling Coastal Processes	15	O	2	7
SOES6022	Microfossils, Environments and Time	15	O	1	7
SOES6023	Environmental Radioactivity & Radiochemistry	15	O	2	7
SOES6027	Global Ocean Monitoring	15	O	2	7
SOES6047	Global Climate Cycles	15	O	Term 3	7

## MEnvSci Sustainable Environmental Management

### Part I Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL1003	Ecology & Evolution	7.5/15	Comp	2	4
ENVS1004	Environmental Science: Concepts and Communication	7.5/15	Core	Full year	4
ENVS1005	Quantitative Methods	7.5/15	Core	1	4
ENVS1006	Environmental Science: Research and Applications	7.5/15	Core	Full year	4
ENVS1007	Environmental Field Techniques and Applications	7.5/15	Core	2	4
GEOG1001	The Earth System	7.5/15	Comp	2	4
GEOG1002	Dynamic Landscapes	7.5/15	Comp	1	4
SOES1008	Earth & Ocean Systems	7.5/15	Comp	1	4

### Part II Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS2006	Environmental Impact Assessment	7.5/15	Core	2	5
ENVS2007	Environmental Pollution	7.5/15	Core	1	5
ENVS2008	GIS for Environmental Scientists	7.5/15	Core	2	5
ENVS2014	Environment and Sustainability	7.5/15	Core	1	5
SOES2003	Geohazards and Earth Resources	7.5/15	Comp	2	5

### Part II Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL2001	Evolution	15	O	2	5
BIOL2004	Pure and Applied Population Ecology	15	O	1	5
DEMO2008	Population and Reproductive Health	15	O	2	5
DEMO2010	Population in Developing Societies	15	O	1	5
ENVS2003	Freshwater Ecosystems	15	O	1	5
ENVS2012	Environmental Instrumentation	15	O	1	5
ENVS2013	Practical Environmental Monitoring	15	O	2	5
GEOG2006	Quaternary Environmental Change	15	O	1	5
GEOG2007	Remote Sensing for Earth Observation	15	O	1	5
GEOG2032	Global Climate Change: Science, Impacts and Policy	15	O	1	5
GEOG2039	Concepts and Methods for Environmental Management	15	O	1	5
GEOG2040	Coastal Landscapes and Human Interactions	15	O	2	5
PHYS2015	Introduction to Energy in The Environment	15	O	2	5
UOSM2001	Business Skills for Employability	15	O	2	5

UOSM2009	Ethics in a Complex World	15	O	2	5
UOSM2011	The Management of Risk and Uncertainty	15	O	2	5
UOSM2022	Social Enterprise	15	O	1	5
UOSM2026	Ethics in Science, Engineering and Technology: Jekyll and Hyde	15	O	2	5

### Part III Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS3011	Environmental Field Studies	7.5/15	Core	NS/ 1	6
ENVS3013	Environmental Law and Management	7.5/15	Core	2	6
ENVS3014	Sustainable Resource Management	7.5/15	Comp	1	6
ENVS6034	Advanced Quantitative Methods	7.5/15	Core	2	6

### Part III Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
BIOL3009	Applied Ecology	15	O	1	6
BIOL3056	Global Change Biology: from molecules to ecosystem services	15	O	2	6
CENV3059	Water and Wastewater Engineering 1	15	O	2	6
DEMO3008	Population and the Environment	15	O	1	6
ENVS3015	GIS–Environmental Functions and Applications	15	O	1	6
ENVS3017	The Sustainability Professional	15	O	1	6
GEOG3023	River Basin Management and Restoration	15	O	2	6
GEOG3047	Complex Socio–ecological systems: Past, present and future	15	O	1	6
GEOG3057	Adapting to Climate Change and Weather Hazards	15	O	1	6
SESG3019	UG Ambassador Scheme	15	O	1	6
SOES3008	Environmental and Engineering Geology	15	O	2	6

### Part IV Core/Compulsory Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
ENVS6009	Advanced Research Project	30/60	Core	Full year	7
ENVS6010	Work–Based Learning	7.5/15	Core	1	7
ENVS6011	Environmental Management Systems	7.5/15	Comp	1	7

#### Part IV Optional Modules

Module Code	Module Name	Credit Points (ECTS/CATS)	Choice Type	Semester	Level
CENV6084	Coastal & Maritime Engineering and Energy	15	O	1	7
CENV6085	Waste Resource Management	15	O	2	7
CENV6088	Transportation Planning: Policies and Methods	15	O	1	7
CENV6090	Energy Resources and Engineering	15	O	1	7
CENV6112	Transport, Energy and the Environment	15	O	1	7
CENV6148	Energy Performance Assessment of Buildings	15	O	2	7
CENV6158	Water & Wastewater Engineering	15	O	2	7
CENV6162	Water Resources Planning and Management	15	O	1	7
ENVS6003	Freshwater Ecosystems	15	O	1	7
ENVS6023	Air Quality & Environmental Pollution	15	O	1	7
ENVS6024	River and Fisheries Restoration	15	O	2	7
ENVS6029	Environmental Modelling & Spatial Analysis	15	O	2	7
SOES6011	Modelling Coastal Processes	15	O	2	7
SOES6023	Environmental Radioactivity & Radiochemistry	15	O	2	7
SOES6027	Global Ocean Monitoring	15	O	2	7
SOES6047	Global Climate Cycles	15	O	Term 3	7

## Learning outcomes and Assessment Mapping

### BSc Programme Learning Outcomes

	Modules below follow the Levels 4 to 6 learning outcomes	Knowledge and Understanding								Subject-specific Intellectual Skills					Transferable/Generic Skills												Subject-specific Practical Skills			
Module code	Module title	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	D 1	D 2	D 3	D 4
ENVS1004	ES concepts and comms	x	x	x	x	x	x	x	x	x	x		x		x	x				x	x	x	x	x	x	x				x
ENVS1005	Quantitative Methods	x	x	x	x			x	x	x	x	x	x		x		x	x	x					x			x	x		
ENVS1006	ES Research & Applications	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x				x			x	x	x	x
ENVS1007	Env Field Tech & Applica	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ENVS2006	Env Impact Assessment	x	x	x	x	x	x	x	x	x	x		x		x	x	x			x	x	x	x	x	x	x	x		x	x
ENVS2007	Environmental Pollution	x	x	x	x		x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x
ENVS2008	GIS for Env Scientists	x	x	x	x		x	x		x	x		x		x	x	x	x	x	x				x			x	x		x
ENVS2014	Environment and Sustainability	x		x	x	x	x	x	x	x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x			x
FEEG3003	Research Project	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	x
ENVS3013	Env Law & Management	x		x		x	x	x	x	x	x		x	x	x	x				x	x	x	x	x	x	x	x			x

## BSc Programme Assessment Methods

Module Code	Module Title	Coursework 1	Coursework 2	Coursework 3	Exam 1	Exam 2
ENVS1004	ES concepts and comms	Essay 50%			Unseen 1 hour 50%	
ENVS1005	Quantitative Methods	Practical test 2 hours 50%	Practical test 2 hours 50%			
ENVS1006	ES Research & Applications	Practical report 35%	Fieldwork proposal 25%		Multiple choice exam 40%	
ENVS1007	Env Field Tech & Applics	Practical report 80%	Group presentation 20%			
ENVS2006	Env Impact Assessment	Scoping report 40%	Press release 10%		Unseen 2 hours 50%	
ENVS2007	Environmental Pollution	Data analysis report 30%			Unseen 1.5 hours 35%	Unseen 1.5 hours 35%
ENVS2008	GIS for Env Scientists	Practical portfolio 30%	Consultancy report 40%	Assessed practical 30%		
ENVS2014	Environment and Sustainability	Group film 40%	Internet seminars 60%			
FEEG3003	Research Project	Presentation and oral examination 10%	Final report 90%			
ENVS3013	Env Law & Management	Group presentation 20%	Environmental policy statement 20%		Unseen 2 hours 60%	

# MEnvSci Programme Learning Outcomes:

	Modules below follow the Levels 4 to 6 learning outcomes	Knowledge and Understanding								Subject-specific Intellectual Skills					Transferable/Generic Skills												Subject-specific Practical Skills			
Module code	Module title	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 1 0	C 1 1	C 1 2	D 1	D 2	D 3	D 4
ENVS1004	ES concepts and comm	x	x	x	x	x	x	x	x	x	x		x		x	x					x	x	x	x	x	x				x
ENVS1005	Quantitative Methods	x	x	x	x			x	x	x	x	x	x		x		x	x	x					x			x	x		
ENVS1006	ES Research & Applications	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x				x			x	x	x	x
ENVS1007	Env Field Tech & Applics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
ENVS2006	Env Impact Assessment	x	x	x	x	x	x	x	x	x	x		x		x	x	x			x	x	x	x	x	x	x	x		x	x
ENVS2007	Environmental Pollution	x	x	x	x		x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x
ENVS2008	GIS for Env Scientists	x	x	x	x		x	x		x	x		x		x	x	x	x	x	x				x			x	x		x
ENVS2014	Environment and Sustainability	x		x	x	x	x	x	x	x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x			x
ENVS3011	Env Field Studies	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ENVS3013	Env Law & Management	x		x		x	x	x	x	x	x		x	x	x	x				x	x	x	x	x	x	x	x			x
	Modules below follow the Level 7 learning outcomes																													
ENVS6009	MEnvSci Adv Res Project	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x
ENVS6010 ENVS6034	Work-based learning Advanced Quantitative Methods	x			x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x			x
		x	x	x	x			x		x	x	x	x		x	x	x	x	x	x							x	x		x



## MEnvSci Programme Assessment Methods

Module Code	Module Title	Coursework 1	Coursework 2	Coursework 3	Coursework 4	Exam 1	Exam 2
ENVS1004	ES concepts and comms	Essay 50%				Unseen 1 hour 50%	
ENVS1005	Quantitative Methods	Practical test 2 hours 50%	Practical test 2 hours 50%				
ENVS1006	ES Research & Applications	Practical report 35%	Fieldwork proposal 25%			Multiple choice exam 40%	
ENVS1007	Env Field Tech & Applics	Practical report 80%	Group presentation 20%				
ENVS2006	Env Impact Assessment	Scoping report 40%	Press release 10%			Unseen 2 hours 50%	
ENVS2007	Environmental Pollution	Data analysis report 30%				Unseen 1.5 hours 35%	Unseen 1.5 hours 35%
ENVS2008	GIS for Env Scientists	Practical portfolio 30%	Consultancy report 40%	Assessed practical 30%			
ENVS2014	Environment and Sustainability	Group Film 40%	Internet Seminars 60%				
ENVS3011	Env Field Studies	Project proposal & risk assessment 10%	Group report 20%	Journal article 50%	Group presentation 20%		
ENVS3013	Env Law & Management	Group presentation 20%	Environmental policy statement 20%			Unseen 2 hours 60%	
ENVS6009	MEnvSci Adv Res Project	Final report 100%					
ENVS6010	Work-based learning	Experiential learning report 50%	Placement report 50%				
ENVS6034	Advanced Quantitative Methods	Short-answer test 2 hours 50%	Dataset analysis 2 hours 50%				

## 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 [www.calendar.soton.ac.uk](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. The University approved models are Casio FX-570 and Casio FX-85GT Plus. These may be purchased from any source and no longer need to carry the University logo.
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	Design equipment and materials:	Standard construction/modelling materials will be provided where appropriate, unless otherwise specified in a module profile.  For customisation of designs/models calling for material other than standard construction/ modelling materials, students will bear the costs of such alternatives.
Clothing	Lab Coats	
	Protective Clothing: Hard hat; safety boots; hi-viz vest/jackets;	
	Fieldcourse clothing:	You will need to wear suitable clothing when attending fieldcourses, e.g. waterproofs, walking boots. You can purchase these from any source.

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
Printing and Photocopying Costs		<p>In some cases, coursework and/or projects may be submitted electronically. Where it is not possible to submit electronically students will be liable for printing costs, which are detailed in the individual Module Profile.</p> <p><u>FEEG3003</u></p> <p>Students are responsible for the printing costs of their poster for the Poster Presentation Day. This may range from approximately £5 - £20.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/feeg3003_individual_project.page">http://www.southampton.ac.uk/engineering/undergraduate/modules/feeg3003_individual_project.page</a></p>
	Other:	<p><u>ENVS1004</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1004_environmental_science_concepts_and_communication.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1004_environmental_science_concepts_and_communication.page?</a></p> <p><u>ENVS1006</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1006_environmental_science_research_and_applications.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1006_environmental_science_research_and_applications.page?</a></p> <p><u>ENVS1007</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1007_environmental_field_techniques_and_applications.page?#overview">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs1007_environmental_field_techniques_and_applications.page?#overview</a></p> <p><u>ENVS2003</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2003_freshwater_ecosystems.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2003_freshwater_ecosystems.page?</a></p>

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		<p><u>ENVS2006</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2006_environmental_impact_assessment.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2006_environmental_impact_assessment.page?</a></p> <p><u>ENVS2008</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2008_gis_for_environmental_scientists.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs2008_gis_for_environmental_scientists.page?</a></p> <p><u>ENVS3011</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3011_environmental_field_studies.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3011_environmental_field_studies.page?</a></p> <p><u>ENVS3013</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3013_environmental_law_and_management.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3013_environmental_law_and_management.page?</a></p> <p><u>ENVS3014</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3014_sustainable_resource_management.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3014_sustainable_resource_management.page?</a></p>

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
		<p><u>ENVS3016</u></p> <p>The cost of travel, accommodation and required safety equipment, along with breakfast and dinner if required, will be paid for by the University. Costs to you: You will need to provide and wear your own suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source and costs will vary depending on your preference. You will be expected to purchase your own lunch and any additional refreshments.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3016_natural_resource_governance.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs3016_natural_resource_governance.page?</a></p>
<b>Optional Visits (e.g. museums, galleries)</b>		Some modules may include additional optional visits. You will normally be expected to cover the cost of travel and admission, unless otherwise specified in the module profile
<b>Anything else not covered elsewhere</b>		<p><b>FEEG3003 Individual Project</b></p> <p>In addition to the experimental, computational and workshop resources available, reasonable expenses for travel and materials of up to £80 may be reclaimed through the Faculty Student Office.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/feeg3003_individual_project.page">http://www.southampton.ac.uk/engineering/undergraduate/modules/feeg3003_individual_project.page</a></p> <p><u>ENVS6009</u></p> <p>Projects may require additional support other than that provided by the Faculty or their supervisor (e.g. travel and subsistence, consumables); each student is eligible for up to £300 to pay for such costs.</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs6009_advanced_research_project.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs6009_advanced_research_project.page?</a></p> <p><u>ENVS6011 (Environmental Monitoring and Assessment)</u></p> <p>The cost of travel to site visits will be covered by the University</p> <p><a href="http://www.southampton.ac.uk/engineering/undergraduate/modules/envs6011_environmental_management_systems.page?">http://www.southampton.ac.uk/engineering/undergraduate/modules/envs6011_environmental_management_systems.page?</a></p>