



**UNIVERSITY OF  
PORTSMOUTH**

## **COURSE SPECIFICATION**

***BSc (Hons) Environmental Science &  
Management (Dual Award with Edith Cowan University,  
Australia)***

# COURSE SPECIFICATION

Please refer to the [Course Specification Guidance Notes](#) for guidance on completing this document.

Course Title	<b><i>BSc (Hons) Environmental Science and Management</i></b>
Final Award	<i>BSc (Hons)</i>
Exit Awards	<i>CertHE, DipHE, BSc</i>
Course Code / UCAS code (if applicable)	U3250PYC
Mode of study	<i>Full time</i>
Mode of delivery	<i>Campus</i>
Normal length of course	<i>3.5 years with 1 year at Edith Cowan University, Australia.</i>
Cohort(s) to which this course specification applies	<i>From September 2023 intake onwards</i>
Entry Requirements	<i>120-128 points to include a minimum of 2 A levels, or equivalent, with 40 points from a Science subject (Biology, Chemistry, Environmental Science/Studies, Geography, Geology, Mathematics or Physics).</i>  <i>With GCSEs in English and Mathematics at grade 4 or above.</i> <i>English language proficiency at a minimum of IELTS band 6.0 with no component score below 5.5.</i>
Awarding Body	<i>University of Portsmouth.</i>
Teaching Institution	<i>University of Portsmouth and Edith Cowan University, Australia.</i>
Faculty	<i>Faculty of Science &amp; Health</i>
School/Department/Subject Group	<i>School of the Environment and Life Sciences</i>
School/Department/Subject Group webpage	<a href="#">School of the Environment and Life Sciences   University of Portsmouth</a>
Course webpage including entry criteria	<a href="https://www.port.ac.uk/study/courses/bsc-hons-environmental-science-and-management-dual-degree">https://www.port.ac.uk/study/courses/bsc-hons-environmental-science-and-management-dual-degree</a>
Professional and/or Statutory Regulatory Body accreditations	Institution of Environmental Sciences (will be applied to post approval).
<a href="#">Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level</a>	4 - 6

This course specification provides a summary of the main features of the course, identifies the aims and learning outcomes of the course, the teaching, learning and assessment methods used by teaching staff, and the reference points used to inform the curriculum.

This information is therefore useful to potential students to help them choose the right course of study, to current students on the course and to staff teaching and administering the course.

Further detailed information on the individual modules within the course may be found in the relevant module descriptors and the Course Handbook provided to students on enrolment.

Please refer to the [Course and Module Catalogue](#) for further information on the course structure and modules.

## Educational aims of the course

The BSc (Hons) Environmental Science and Management dual degree course is designed to offer an integrated approach to the scientific study and analysis of the environment, backed-up with a good awareness of current environmental issues and concerns, with addition of one year of study at Edith Cowan University, Australia. The course aims to provide a stimulating learning environment to enable students to develop a range of academic and generic skills to help them find good quality employment on graduation, and provide the basis for a lifetime of learning. The course embraces the integrated nature of environmental science, drawing on biology, chemistry, physics and geology to allow students to interpret the pressures on our environment and point to ways in which we can act to manage these more successfully. Elements of the course can be chosen including energy resources, hydrology, climate change and environmental conservation. There is the opportunity to specialise and numerous opportunities for fieldwork. In the final-year dissertation, students are able to choose their own area in which to conduct a substantial environmental investigation to produce a report to a professional standard. The course aims to equip students to work as environmental scientists or within alternative employment.

### *In general, the course aims to:*

- Develop knowledge of the variety of strategies needed to work in the field of environmental science;
- Train environmental scientists with a specialist knowledge of a specific aspect of environmental science, such as ecology or environmental chemistry.

### *More specifically, the course aims to:*

- Provide a stimulating, wide ranging, yet integrated programme in the environmental sciences;
- Develop a range of key skills through opportunities provided in the study modules, including critical, analytical, practical, professional, research and communication skills, to prepare students for postgraduate study and/or professional qualifications;
- Provide a challenging, stimulating and self-rewarding study environment;
- Provide a framework whereby individual study paths may be forged based on choice from a range of options; accommodate student needs in relation to maximising their career potential by enabling them to develop knowledge, understanding and skills in their chosen subject area;
- Train students in a professional manner such that it will enhance their employability prospects and help them towards a satisfying career in environmental science;
- Develop the skills necessary for life-long independent learning and acquisition of knowledge.

## Course Learning Outcomes and Learning, Teaching and Assessment Strategies

The [Quality Assurance Agency for Higher Education \(QAA\)](#) sets out a national framework of qualification levels, and the associated standards of achievement are found in their [Framework for Higher Education Qualifications](#) document.

The Course Learning Outcomes for this course are outlined in the tables below.

<b>A. Knowledge and understanding of:</b>			
<b>LO number</b>	<b>Learning outcome</b>	<b>Learning and Teaching methods</b>	<b>Assessment methods</b>
A1	Appreciate the need for a multidisciplinary and interdisciplinary approach to acquire and advance knowledge and understanding of the Earth's environmental systems.	Through the Global Environmental Challenges and Introduction to Marine Ecology and Oceanography at level 4 and many other modules at levels 5 and 6, including Environmental Chemistry & Monitoring as well as modules at ECU (e.g. Aboriginal Perspectives on the Environment)  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
A2	Demonstrate comprehension of the processes that shape the natural world at different temporal and spatial scales and their influence on and by human activities as well as any potential impact controls and solutions.	Developed through a range of modules, starting with Global Environmental Challenges and Plant, Ecology & Human Impact in Level 4 and then other modules relating to human activity and its impact on the environment, including Energy Resources & the Science of Zero Carbon, Environmental Chemistry & Monitoring, Hydrology & Geoenvironmental Risk, and Environmental Impact & Assessment.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
A3	Development of methods of observing, acquiring, interpreting and analysing natural and social science information, including relevant classifications, with a critical understanding of the appropriate contexts for their values and use.	Embedded in all modules, including mathematics and computing units, including Analysis of the Earth & Environment, Geographical Information Systems and Remote Sensing, Environmental Fieldwork and Professional Skills, Environmental Chemistry and Monitoring, Scientific and Technical Diving Techniques, Climate Change, and Environmental Auditing and Assessment & Management, as well as through a variety of fieldtrips	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.

		and the final year Dissertation module.	
A4	Awareness of issues concerning the finite re-use, availability and sustainability of resources.	Developed through the Global Environmental Challenges module leading to other energy related modules such as Energy Resources & the Science of Zero Carbon, Hydrology & Geoenvironmental Risk, and Sustainable Water, Environmental Pollution and Waste Management.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
A5	Appreciation of the major Earth systems involved in the cycling of energy, water and matter, and the complexity and interrelatedness of them.	Developed in the Planet Earth, Global Environmental Challenges, Environmental Processes & Hazards and Introduction to Marine Ecology and Oceanography and further explored in a number of other modules including Environmental Chemistry and Monitoring, Hydrology and Marine & Freshwater Processes.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.

<b>B. Cognitive (Intellectual or Thinking) skills, able to:</b>			
<b>LO number</b>	<b>Learning outcome</b>	<b>Learning and Teaching methods</b>	<b>Assessment methods</b>
B1	Plan, conduct and report on a programme of original research at undergraduate level including the formulation and testing of hypotheses.	Specifically developed during Research, Fieldwork and Professional Skills and the final year Dissertation.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio, reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams.
B2	Critically consider, select and apply appropriate mathematical, scientific, laboratory and computer-based methods and principles in the analysis and solution of environmental problems.	Developed through a range of modules including Analysis of the Earth & Environment, Environmental Chemistry and Monitoring, Geographical Information Systems & Remote Sensing, Environmental Investigation & Monitoring and Dissertation  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio, reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams.
B3	Work with confidence from basic principles to apply essential environmental science techniques to unfamiliar situations.	Primarily developed through the Research, Fieldwork and Professional Skills, Environmental Chemistry and Monitoring, Environmental Assessment & Management, River Processes and Environmental Investigation & Monitoring. Other modules, including the final year Dissertation also contribute to achieving this learning outcome.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio, reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams.
B4	Estimate and scope the scale of environmental problems and their potential consequences.	Demonstrated within Global Environmental Challenges,	*Literature reviews *Portfolio, reports

		<p>Environmental Assessment &amp; Management, Sustainable Water as well as other pollution-based modules, such as Environmental Pollution and Waste Management.</p> <p>Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11</p>	<p>*Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams.</p>
B5	<p>Integrate and critically evaluate relevant information from a variety of sources and contribute to topical environmental debates through the use of specialist knowledge, recognising legal, moral, ethical and social issues in order to propagate informed views.</p>	<p>Developed through most modules, including Global Environmental Challenges, Energy Resources &amp; the Science of Zero Carbon, Aboriginal Perspectives on the Environment, and Environmental Impact Assessment, as well as the Dissertation module.</p>	<p>*Literature reviews *Portfolio, reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams.</p>

<b>C. Practical (Professional or Subject) skills, able to:</b>			
<b>LO number</b>	<b>Learning outcome</b>	<b>Learning and Teaching methods</b>	<b>Assessment methods</b>
C1	Plan, conduct and report on scientific investigations, including the use of secondary data.	C1-C3 are features of many units within the Environmental Science and Management Programme. C1-C3 are particularly stressed in Environmental Chemistry and Monitoring, Hydrology & Geoenvironmental Risk, Geographical Information Systems and Remote Sensing, Research, Fieldwork and Professional Skills, Environmental Assessment & Management, Environmental Investigation & Monitoring and the Dissertation. Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
C2	Collect, record and analyse data using appropriate techniques in the field and laboratory.	Outlined above.	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
C3	Undertake 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.	Outlined above	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
C4	Reference work in an appropriate manner	Developed in all modules, particularly where modules are assessed by fully referenced reports or presentations. Students are encouraged to critically read and cite primary literature and are taught and required to use the prescribed APA format. Specific examples of	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.



		<p>such units are Global Environmental Challenges, Introduction to Marine Ecology and Oceanography, Energy Resources &amp; the Science of Zero Carbon, as well as the final year Dissertation modules.</p> <p>Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11</p>	
C5	<p>Demonstrate the ability to identify and work towards targets for personal, academic and career development, and where appropriate adapt approaches to study and work necessary for self-managed and lifelong learning.</p>	<p>C5-C7 are stressed explicitly within the tutorial system (particularly at levels 5 and 6), and in the Research, Fieldwork and Professional Skills and Dissertation modules, as well as a number of other modules where site visits and guest speakers provide students with experience and understanding of the workplace, such as Environmental Pollution, &amp; Waste Management, Environmental Chemistry &amp; Monitoring and Energy Resources &amp; the Science for Zero Carbon.</p> <p>Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11</p>	<p>*Careers portfolio *Mock graduate recruitment assessment *Mock job application, *CV and job interview.</p>

<b>D. Transferrable (Graduate and Employability) skills, able to:</b>			
<b>LO number</b>	<b>Learning outcome</b>	<b>Learning and Teaching methods</b>	<b>Assessment methods</b>
D1	Communicate effectively to a variety of audiences in written, verbal and graphical forms, using information from a variety of sources.	Developed in the tutorial programme and a number of modules where students are required to undertake group discussions, and give oral and poster presentations to staff and their peer group, including Global Environmental Challenges, Environmental Chemistry & Monitoring, Hydrology & Geoenvironmental Risk, Research, Fieldwork and Professional Skills and the final year Dissertation module. In some modules, external visitors may also be present at the presentations. Written communication skills are developed in all modules.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams *Dissertation thesis.
D2	Demonstrate an appreciation of issues surrounding sample selection, accuracy, precision and uncertainty during collection, recording and later analysis of data in the field and laboratory, using computer and non-computer techniques where appropriate.	Addressed in a number of modules where laboratory or fieldwork is undertaken. The concept of sample, accuracy, precision and uncertainty during collection, recording and analysis of data is introduced in Introduction to Marine Ecology and Oceanography, Analysis of the Earth & Environment, and Ecology, Plant and Human Impact and further developed at later stages in modules such as Environmental Chemistry & Monitoring, Research, Fieldwork and Professional Skills, Geographical Information systems and Remote Sensing, Hydrology and Geoenvironmental Risk, Environmental Investigation & Monitoring and the final year Dissertation.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Dissertation thesis.

D3	Use the internet critically and professionally as a means of communication and a source of information.	First addressed in modules such as Analysis of the Earth & Environment, Introduction to Marine Ecology and Oceanography and Global Environmental Challenges, and reinforced throughout the tutorial programme. Students are encouraged to critically assess the use of the internet as a source of information throughout the entire course, particularly when researching and preparing coursework. Group work plays an important role in many modules.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	Literature reviews *Portfolio reports *Oral presentations (including poster presentations) *Field notebooks *Fieldwork reports *Laboratory reports *Exams
D4	Identify and critically reflect upon individual and collective goals and responsibilities and perform in a manner appropriate to these roles.	D4 and D5 are addressed in a number of modules, including Global Environmental Challenges, Environmental Chemistry and Monitoring, Research, Fieldwork and Professional Skills. In addition, the tutorial programme is used to examine Belbin's theory on group formation and dynamics and students take part in group analysis and role play exercises. Students also engage in analysis and evaluation of their team and individual roles throughout the course, through peer-review and self- assessment exercises in a number of modules.  Hallmarks 1,2,3,4,5,6,7,8,9,10 and 11	*Group fieldwork * Group work *Individual oral presentations (including posters) *Written assessments.

### Academic Regulations

The current University of Portsmouth [Academic Regulations: Examination & Assessment Regulations](#) will apply to this course. This course has an [Approved Course Exemption](#).

### Support for Student Learning

The University of Portsmouth provides a comprehensive range of support services for students throughout their course, details of which are available at the [MyPort](#) student portal.

In addition to these University support services, this course also provides support prior to, during and following work-based learning and/or placements (including study abroad). Support includes personal

tutors, supervisors and mentors as appropriate. Personal tutors provide academic and personal support throughout the degree programme. They help students make the transition into higher education and, if necessary, signpost to academic and personal support services. Students meet with their personal tutor in scheduled group and one-to-one sessions and available outside of timetabled tutorials to help with urgent issues or concerns.

Students will have access to all their usual learning resources while off-campus including course details and handbooks, as well as a range of placement-specific resources and/or handbooks.

## Evaluation and Enhancement of Standards and Quality in Learning and Teaching

The University of Portsmouth undertakes comprehensive monitoring, review and evaluation of courses within clearly assigned staff responsibilities. Student feedback is a key feature in these evaluations, as represented in our [Policy for Listening to and Responding to the Student Voice](#) where you can also find further information.

## Reference Points

The course and outcomes have been developed taking account of:

- [University of Portsmouth Curriculum Framework Specification](#)
- [University of Portsmouth Strategy 2025](#)
- [University of Portsmouth Code of Practice for Work-based and Placement Learning](#)
- [Quality Assurance Agency UK Quality Code for Higher Education](#)
- [Quality Assurance Agency Qualification Characteristic Statements](#)
- [Quality Assurance Agency Subject Benchmark Statement](#) for Earth Sciences, Environmental Sciences and Environmental Studies
- [Quality Assurance Agency Framework for Higher Education Qualifications](#)
- Requirements of Professional and/or Statutory Regulatory Bodies: Institution of Environmental Sciences [The Committee of Heads of Environmental Sciences, Professional Accreditation for the Institution of Environmental Sciences](#)
- Vocational and professional experience, scholarship and research expertise of the University of Portsmouth's academic members of staff
- National Occupational Standards

## Changes to your course/modules

The University of Portsmouth has checked the information provided in this Course Specification and will endeavour to deliver this course in keeping with this Course Specification. However, changes to the course may sometimes be required arising from annual monitoring, student feedback, and the review and update of modules and courses.

Where this activity leads to significant changes to modules and courses there will be prior consultation with students and others, wherever possible, and the University of Portsmouth will take all reasonable steps to minimise disruption to students.

It is also possible that the University of Portsmouth may not be able to offer a module or course for reasons outside of its control, for example, due to the absence of a member of staff or low student registration numbers. Where this is the case, the University of Portsmouth will endeavour to inform applicants and students as soon as possible, and where appropriate, will facilitate the transfer of affected students to another suitable course.

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