Programme Specification for BSc (Hons) Environmental Management & Sustainability

This document applies to Academic Year 2022/23 onwards

Table 1 Programme specification for BSc (Hons) Environmental Management & Sustainability.

1.	**Awarding institution/body**	University of Worcester
2.	**Teaching institution**	University of Worcester
3.	**Programme accredited by**	[Pending] Institution of Environmental Sciences
4.	**Final award or awards**	BSc (Hons)
5.	**Programme title**	Environmental Management & Sustainability
6.	**Pathways available**	Single
7.	**Mode and/or site of delivery**	Standard taught programme
8.	**Mode of attendance and duration**	Full time 3 years Full time 4 years with Foundation Year Full time 4 years with Professional Placement Year Full time 5 years with Foundation Year and Professional Placement Year
9.	**UCAS Codes**	F850 - BSc (Hons) Environmental Management & Sustainability F851 - BSc (Hons) Environmental Management & Sustainability (with Foundation Year) F852 - BSc (Hons) Environmental Management & Sustainability (with Professional Placement Year) F853 - BSc (Hons) Environmental Management & Sustainability (with Foundation Year & Professional Placement Year)
10.	**Subject Benchmark statement and/or professional body statement**	QAA Benchmark Statement for Earth sciences, Environmental sciences and Environmental studies (2019)
11.	**Date of Programme Specification preparation/ revision**	Approved ASQEC March 2021

12. Educational aims of the programme

The BSc (Hons) Environmental Management & Sustainability programme is a three-year (full-time) course, but can also be taken with a Placement Year, or Foundation Year as a four-year course, or as a five-year course when combined with a Foundation Year and Professional Placement Year. It has been designed to provide graduates with the knowledge and skills necessary to work effectively within the environmental and sustainability sector.

Students follow an intellectually challenging and contemporary programme of study at Honours degree level. In addition to the teaching of theoretical and applied aspects of the subject, there are numerous opportunities for laboratory and field work, locally and regionally. Students can also broaden their experiences during international field trips.

Overall, the course aims for students to develop an in-depth understanding of the interactions between humans and the environment and how they can provide recommendations towards

sustainable management. Our students therefore graduate with the confidence to enter the workplace and make a difference.

More specifically, the course aims to:

- Provide a broad, contemporary and intellectually challenging curriculum enabling students to develop a sound understanding of key principles, theories and applications in environmental management and sustainability.

- Offer students opportunities to develop a range of subject-specific and transferable skills to support their undergraduate studies and to prepare them for employment in the environmental and sustainability sector, and/or post-graduate study.

- Develop students' skills of reflection, critical analysis, and communication in a range of formats enabling them to be effective in the workplace.

- Enable students to develop a capacity to learn and work autonomously coupled with the ability to work effectively with others as part of a team to investigate key aspects of environmental management and sustainability.

- Provide a supportive learning environment which acknowledges and responds to the diversity of student backgrounds and experiences, and which allows students the opportunity to achieve their academic potential.

- Develop well educated graduates that are ethically and environmentally responsible and are capable of responding to current and future needs of the environmental sector.

13. Intended learning outcomes and learning, teaching and assessment methods

Mapping of modules aligning most strongly to the course Learning Outcomes (LOs).

Table 2 Knowledge and understanding outcomes in module code/s.

Knowledge and Understanding		
LO	**On successful completion of the named award, students will be able to:**	**Module Code/s**
1.	Evaluate environmental issues from a range of interdisciplinary and multidisciplinary perspectives.	ENMS3004 ENMS3003
2.	Evaluate management approaches for a range of environmental problems and develop solutions to complex problems.	ENMS3004
3.	Critically analyse the environmental consequences for the continued exploitation of natural resources to meet human demands, and how impacts can be mitigated through effective management.	ENMS3004 ENMS3002
4.	Demonstrate a critical understanding of environmental sustainability and explain how the interactions between humans and the environment can be managed to achieve sustainability.	ENMS3002
5.	Critically discuss the importance of natural capital and how ecosystems can be managed sustainably to deliver ecosystem services.	ENMS3003

Table 3 Cognitive and intellectual skills outcomes for module code/s.

Cognitive and Intellectual skills		
LO	**On successful completion of the named award, students will be able to:**	**Module Code/s**
6.	Recognise and use subject-specific theories, paradigms, concept and principles to inform decision making processes.	ENMS3001
7.	Analyse, synthesise and summarise information from a range of sources to develop reasoned arguments.	ENMS3001 ENMS3002
8.	Apply knowledge and understanding to address complex and multidimensional environmental problems in familiar and unfamiliar contexts.	ENMS3001

Table 4 Skills and capabilities related to employability outcomes for module code/s.

Skills and capabilities related to employability		
LO	**On successful completion of the named award, students will be able to:**	**Module Code/s**
9.	Undertake field and laboratory investigations in a safe and responsible manner, complete risk assessments, and be aware of rights of access, and relevant health and safety regulations, whilst considering the impact of investigations on the environment and stakeholders.	ENMS3001 ENMS3004
10.	Successfully design, organise and execute rigorous research to obtain information with scientific integrity, which will include the analysis and interpretation of data obtained following the application of appropriate field and laboratory techniques, culminating in the production of a final report.	ENMS3001
11.	Prioritise workloads leading to their timely completion and manage resources effectively and optimally. This will include working efficiently as an individual, but also as part of a team.	ENMS3001
12.	Select the most appropriate way to communicate effectively in writing or verbally with individuals and organizations, supported with the appropriate use of diagrams and other visual aids produced using information technology.	ENMS3001

Table 5 Transferable/key skills outcomes for module code/s.

Transferable/key skills		
LO	**On successful completion of the named award, students will be able to:**	**Module Code/s**
13.	Communicate appropriately and effectively with a variety of audiences in written, oral, numerical and graphical forms, and have high degrees of digital capability to actively and responsibly create, communicate and collaborate online.	ENMS3001
14.	Work effectively in a variety of interpersonal situations, including working with groups/teams and recognising and respecting the viewpoints of others.	ENMS3002
15.	Reflect and evaluate their own academic, vocational and professional performance, taking responsibility for personal independent working and professional learning and development.	ENMS3001

Transferable/key skills		
16.	Demonstrate the importance of scientific integrity with regards to data collection, analytical precision, and accurate record keeping, both in the field and laboratory.	ENMS3001 ENMS3004

Learning Outcomes specific to the Professional Placement Year:

Table 6 Professional placement year outcomes for module code/s.

Professional Placement Year		
LO	**On successful completion of the Professional Placement Year, students will be able to:**	**Module Code/s**
17.	Demonstrate an ability to relate academic theory to the work-based environment and directly apply experiences to their final year of study.	ENMS3000
18.	Apply key skills demanded by employers including effective communication, time management, working as part of a team, self-reliance and the ability to problem solve.	ENMS3000

Learning, teaching and assessment

Overview

The University places emphasis on enabling students to develop the independent self-study capabilities for lifelong learning and future employment, as well as academic achievement. A mixture of independent self-study, teaching and academic support through the Personal Academic Tutor (PAT) system enables students to reflect on progress and build up a profile of skills, achievements and experiences that will enable them to flourish and be successful.

Teaching

The Environmental Management & Sustainability programme aims to provide a supportive, student-centred learning environment that acknowledges and responds to the diversity of student backgrounds and experiences. The structure of the programme enables students to move towards increasing independence in their studies from Level 4 to Level 6, in line with the Framework for Higher Education Qualifications (FHEQ) and the University's Learning and Teaching Strategy. In general, Level 4 modules offer students structured tutorial support for their learning, whilst at Level 5 this support becomes less structured, although the extent to which this occurs varies with the difficulty of the task. At Level 6, modules offer students opportunities for more independent self-study, although specific help from lecturers is always available. Learning outcomes, and hence assessments therefore become more demanding with an increase from Level 4 through to Level 6. Throughout the programme opportunities are provided to encourage students to become individual, autonomous and reflective learners.

The course places emphasis on enabling students to develop the independent learning capabilities that will equip them for lifelong learning and future employment, as well as academic achievement. A mixture of independent study, teaching and academic support from Student Services and Library Services, and also the Personal Academic Tutoring system enables students to reflect on progress and build up a profile of skills, achievements and experiences that will help them to flourish and be successful. Students are also supported with access to a wide range of resources including subject specific equipment.

Students studying on this programme participate in a wide range of learning experiences. Teaching, assessment and individual study are interlinked in that they are all aspects of a student's personal and academic development. Although many modules may employ traditional

lectures and seminars, students can also expect to take part in a range of group exercises, individual preparation/reading, fieldwork, laboratory and IT practicals, presentations etc. There is also a strong emphasis on fieldwork, and the amount of fieldwork within the curriculum is a strength of the Environmental Management & Sustainability programme. At Level 4 there is approximately 18 hours of residential fieldwork and 20 hours of non-residential fieldwork, coupled with approximately 100 hours of practical sessions. This means over a third (38%) of student contact time is based around these activities. In addition to fieldwork in mandatory modules at Levels 5 and 6, there are the options of taking ENMS2004 Mediterranean Environments (Field Course) at Level 5, and ENMS3005 Environmental Management & Sustainability (Field Course) at Level 6.

Contact time

In a typical week, students will have around 12-16 contact hours of teaching. The precise contact hours will depend on the optional modules selected and in the final year there is normally slightly less contact time in order for students to engage with more independent study.

Typical class contact time is structured around:

- **Lectures** - Focussed on delivering the core learning for a module, in which new information is presented and discussed. Lectures are interactive to enhance learning and understanding.

- **Seminars** - Focussed on broadening understanding through a greater level of discussion. Students are encouraged to actively participate rather than take notes. Some seminars are also student led.

- **Laboratory Practicals** - Focused on developing subject specific practical skills and provide the opportunity for students to work individually and/or part of a team.

- **Computer Practicals** – Students are immersed in the use of IT to gain generic and subject specific skills including mapping, data analysis, and modelling.

- **Fieldwork** - Provides the opportunity for students to put their learning into practice, which includes engaging in professional activities relevant to the environmental sector. Fieldwork also contributes to an enhanced understanding of the subject and enables students to engage with their peers in situations that cannot be replicated in lectures.

Professional Placement Year

Students studying BSc (Hons) Environmental Management & Sustainability (with Placement Year) are assisted in finding and arranging relevant employment between their second and final year of study. Employment should be for a minimum of 36 weeks, relevant to the Environmental Management & Sustainability course. The University officially recognises this professional experience by recording the work placement on the student's degree transcript. The Professional Placement Year adheres to the following guidelines which are based upon the QAA Code of Practice on Placement Learning.

Students studying on the BSc (Hons) Environmental Management & Sustainability programme (with Professional Placement Year) will be automatically registered on a zero-credit mandatory module (ENMS3000). To ensure there is added value to the degree programme for students taking the placement year route, there are a number of requirements and the module is run with a Pass/Fail outcome. In order to pass the Professional Placement Year and achieve a sandwich degree, students are required to 1) Attend placement for a minimum of 36 weeks full time employment, and 2) Pass two assessment items as part of ENMS3000: Reflective Portfolio and an individual oral presentation.

Students not taking a Professional Placement Year have the opportunity to take the Professional Work Placement module (ENMS3008) in their final year of study as an optional module.

There are no additional eligibility criteria for the Professional Placement Year and as a result, there is no variation to the regulations with regards to progression. A student will be permitted to progress from Level 5 to Level 6 if, by the time of the reassessment Board of Examiners, they have passed at least 210 credits, including 90 credits at Level 5. However, where a student does not successfully complete the second year of study and accumulate 240 credits, there will be a meeting between the student and their Personal Academic Tutor/Course Leader to discuss study options and plan their future study programme. This may result in the student transferring to the three-year (non-sandwich) course, or it may result in the student extending their studies to re-take modules before or after the Professional Placement Year.

Independent self-study

In addition to the contact time, students are expected to undertake around 24 hours of independent self-study per week, plus assessment preparation in the assessment period at the end of each semester. Typically, this will involve visiting the library and carrying out recommended reading, planning and writing assignments, and undertaking group work.

Independent self-study is supported by a range of excellent learning facilities, including the Hive and library resources, the virtual learning environment, and extensive electronic learning resources.

Teaching staff

Students will be taught by a teaching team whose expertise and knowledge are closely matched to the content of modules on the course. The team includes professors in atmospheric science, senior academics with strong research backgrounds, and guest lectures by subject specialists from outside the University. Practical sessions are fully supported by a dedicated team of technicians, which serves to enhance the student experience. Research students with relevant expertise are also invited to contribute to teaching under the supervision of module leaders.

Teaching is informed by research and consultancy, and more than 85% of lecturers in the School of Science and Environment have a higher education teaching qualification and/or are Fellows of the Higher Education Academy. You can view staff profiles here.

Due to the interactive nature of taught sessions, students have ample opportunity to get to know their lecturers, which ultimately benefits their learning.

Assessment

The course provides opportunities to test understanding and learning informally through the completion of practice or ‘formative’ assignments, which do not contribute towards the final grade. This approach prepares students for the formal ‘summative’ assessments, which contribute towards the overall grade achieved for that module.

To enhance the employability of our graduates there is a focus on authentic coursework that is directly related to real-world situations. We use a wide range of assessment types including scientific reports, practical reports, essays, case study evaluations, management plans, oral presentations, in-class tests, and exams.

The precise assessment requirements for an individual student in an academic year will vary according to the optional modules taken, but a typical summative assessment pattern according to course year is as follows:

Year One

1 Research report
1 Scientific report
1 Practical report
1 Essay
1 Oral presentation
1 Poster presentation
1 Exam
2 Portfolios

Year Two

1 Case study evaluation
1 Consultancy report
2 Scientific reports
2 Practical reports
1 Research proposal
1 Research project report
2 Oral presentations
1 In-class test
1 Field notebook
1 Scientific news article

Year Three

1 Dissertation
1 Restoration plan
1 Essay
2 Case study evaluations
1 Case study critical analysis
4 Oral presentations
2 Scientific reports

Student Feedback

Students receive feedback on practice 'formative' assessments and on all formal 'summative' assessments undertaken by coursework. Feedback on examination performance is available upon request from the module leader. Feedback is intended to support learning and students are encouraged to discuss any feedback received with their Personal Academic Tutor and module tutors as appropriate. The aim is to provide students with feedback on summative assessments within 20 working days of submission.

14. Assessment strategy

The assessment strategy for Environmental Management & Sustainability is based on the University's Assessment Policy and follows the specific guidance on course assessment strategy and has been used as a point of reference throughout.

The Environmental Management & Sustainability course aims to develop students as autonomous and independent learners who possess a broad range of intellectual and transferable skills. This is achieved using a range of methods to assess students with a focus on authentic assessment types with the aim of preparing students for future employment. Students are therefore required to demonstrate skills and capabilities that represent problems and situations they are expected to encounter in the 'real' world.

Assessments are designed to test student knowledge and understanding and their ability to apply this to a range of circumstances. Assessments also enable students to demonstrate the

ability to critically evaluate information and problem solve. As students progress through the course they are exposed to an advancement in knowledge and skills, which are required to complete more complex assignments such as environmental management plans, site evaluations and modelling reports. This approach supports students during the transition between differing stages of their educational and work experiences and encourages learner autonomy and resilience for learning and assessment. Assessment and feedback are also considered holistically across the programme to provide consistency, but also to enhance engagement and promote student motivation.

Students are assessed throughout the course using a range of summative assessment methods to ensure all students have an opportunity to excel and none are disadvantaged through over-reliance on one type. To support students in preparation for their assessments, all mandatory modules include at least one formative assessment directly related to summative assessment items. Emphasis is placed on providing formative assessments for assessment types that have not been previously used during the course. This also includes the provision of formative assessments in optional modules available only to Environmental Management & Sustainability students.

Formative assessment points occur throughout each semester after an introductory period for each module. However, to provide early feedback on student performance at Level 4, all students are asked to complete a formative assessment within the first four to six weeks of Semester 1, which is linked to one of the mandatory modules for the course.

Formative assessments will take a number of different formats and be conducted informally in class practical and field situations, or more formally in classrooms or via the Blackboard VLE. When appropriate, students will also be required to submit formative assignments via Turnitin in Blackboard, presenting the opportunity for students to discuss the originality report obtained from Turnitin with the lecturer and their Personal Academic Tutor. This is to help ensure students understand the concept of academic integrity and the importance of citing sources and referencing etc

Students are notified at the start of the semester about assessment requirements for all modules, enabling them to organise their independent study effectively. Full assignment briefs including grade descriptors for each assessed learning outcome are provided, along with weighting (percentage contribution) of assignments towards the final module mark, are specified in all module handbooks. These are made available on the Blackboard VLE for each module.

15. Programme structures and requirements

Award maps for Levels 4, 5 and 6 are provided in the Appendix.

16. QAA and professional academic standards and quality

This award is located at Level 6 of the FHEQ. The course has been developed with reference to the QAA Subject Benchmark Statement for Earth sciences, Environmental sciences and Environmental studies (2019), which has been used to inform course learning outcomes and skills. QAA and UW guidelines on work related learning and experience have also been followed.

17. Support for students

To facilitate transition into University life, students are encouraged to take part in the variety of activities as part of their induction. The programme of events varies from year to year, but usually includes the following: An introduction to the course; Introduction to key ICT resources including the Student Online Environment (SOLE), Blackboard (a virtual learning environment), an introduction to library services, and a social event to meet staff and other students; there is also a planned field trip/activity. During Welcome Week, students will get to meet their Personal Academic Tutor (PAT), enabling students to discuss any aspects of the course.

Students are required to meet their PAT on at least four occasions in the first year, and three occasions in each of the other years of a course. These tutorial sessions are structured and tailored to guide and support students on an individual basis throughout their course. A key role of the PAT is to support students with Personal Development Planning, which is achieved by:

- Supporting students to become a member of the University and make the transition to studying in higher education.
- Helping students to understand the requirements of their course in terms of knowledge and understanding, skills development and assessment requirements.
- Supporting students to take responsibility for their own learning through helping them to reflect on their progress, identify their learning needs and develop appropriate strategies to achieve them.
- Helping students to make the most of the learning resources and other forms of learning support available to them.
- Supporting students in academic, professional and career related planning and development, and the appropriate recording of this.
- Advising and guiding students on issues or problems arising whilst they are at the University and, where appropriate, direct them to the broader range of services provided by the University.
- Support students for whom there may be particular challenges when entering higher education.

Students on a Professional Placement Year will be allocated a Placement Tutor who will liaise directly with the student during the placement and will make visits to the student's workplace or arrange virtual meetings (e.g. via Microsoft Teams) if they are working outside of the UK.

Students taking the optional Professional Work Placement module will be supported by the module leader who will arrange two tutorials individually with students to discuss the placement and provide advice and guidance as required.

Student Services is the central department that provides non-academic support for students. The department includes a number of vital support mechanisms, including the Disability and Dyslexia Service who provide advice and guidance about all disability-related matters.

18. Admissions

Admissions policy

We welcome applications from people of all ages and backgrounds with an interest in studying Environmental Management & Sustainability. The University aims to be accessible; it is committed to widening participation and encouraging diversity in the student population. The School of Science and the Environment works closely with central student support services, including the Admissions Office, the Disability and Dyslexia Service, and the International team (student services), to support students from a variety of backgrounds. We actively encourage and welcome people from the widest range of economic and cultural backgrounds and welcome the contribution of mature learners.

The University has an Equality of Opportunity Policy, together with equality schemes and action plans promoting equality in relation to race, disability, gender, age and sexual orientation. Progress in implementation is monitored by the Equality and Diversity Committee.

Entry requirements

The normal minimum entry requirement for undergraduate degree courses is the possession of 4 GCSEs (Grade C/4 or above) and a minimum of 2 A Levels (or equivalent Level 3 qualifications).

The current UCAS Tariff requirements for entry to this course are published in the prospectus and on the UW website https://www.worc.ac.uk/journey/a-z-of-courses.html

Applicants for this course must have passed at least two A levels and at least one from the following subjects: Biology, Chemistry, Environmental Science, Environmental Studies, Geography, Geology, Maths, and Physics.

The University will consider each application on its individual merits and will recognise a range of qualifications not currently included in the Tariff, including pre-2002 qualifications such as GNVQ. Non-standard entry via the exploratory essay route is also available.

See Admissions Policy for other acceptable qualifications.

The course is also available as Environmental Management & Sustainability (with Foundation Year) and Environmental Management & Sustainability (with Professional Placement Year), and Environmental Management & Sustainability (with Foundation Year and Professional Placement Year).

International students not meeting the Level 4 entry requirements may also apply for this course through the University of Worcester International College (UWIC) programme. Students who successfully complete UWIC Stage 1 will progress to UWIC Stage 2 Integrated Level 4 Programme which involves completing 120 credits of University of Worcester modules as set out in the award map in section 15, plus a year-long study skills programme with UWIC. Students will be required to successfully complete the UWIC study skills programme in addition to meeting the University requirements for progression to Level 5.

Mature Students are also welcome to apply who hold alternative qualifications and or experience and can demonstrate the ability to benefit from the course and show their potential to complete the course successfully. Although recent preparatory study at an appropriate level (e.g. an Access to Higher Education Diploma) is recommended, students may be considered on the basis of prior evidenced professional/work experience and/or other assessment procedures, and the assessment of personal suitability. University Admissions office staff can offer information, advice and guidance on this process.

Disclosure and Barring Service (DBS) requirements A satisfactory DBS maybe required if a placement experience is a required element of the course.

Recognition of Prior Learning - Details of acceptable Level 3 qualifications, policy in relation to mature students or applicants with few or no formal qualifications can be found in the prospectus or on the University webpages. Information on eligibility for recognition of prior learning for the purposes of entry or advanced standing is also available from the University webpages or from the Registry Admissions Office. Further information on Recognition of Prior Learning can be found here: http://www.worcester.ac.uk/registryservices/941.htm

Admissions procedures

Applicants apply through UCAS:

F850 Environmental Management & Sustainability
F851 Environmental Management & Sustainability (with Foundation Year)
F852 Environmental Management & Sustainability (with Professional Placement Year)

Admissions/selection criteria

All applications are considered by the Admissions Tutor with regards to the ability of the applicant to meet the specified entry requirements of the course, coupled with a personal statement that clearly demonstrates a strong interest in Environmental Management & Sustainability. References provided in support of the applicant are also considered. It is not currently standard practice to interview candidates, but those applying via non-standard entry routes will be invited to interview.

19. Regulation of assessment

The course operates under the University's Taught Courses Regulatory Framework

Requirements to pass modules

- Modules are assessed using a variety of assessment activities which are detailed in module specifications.
- The minimum pass mark is D- for each module.
- A student is required to submit all items of assessment in order to pass a module, and in some modules, a pass mark in each item of assessment may be required.
- Full details of the assessment requirements for a module, including the assessment criteria, are published in the module outline.

Submission of assessment items

- A student who submits course work late but within 7 days (one week) of the due date will have work marked, but the grade will be capped at D- unless an application for mitigating circumstances is accepted.
- A student who submits work later than 7 days (one week) will not have work marked unless they have submitted a valid claim of mitigating circumstances.
- For full details of submission regulations please see the Taught Courses Regulatory Framework.

Retrieval of failure

- A student is entitled to resit failed assessment items for any module that is awarded a fail grade.
- Reassessment items that are passed are capped at D-.
- If a student is unsuccessful in the reassessment, they have the right to retake the module (or, in some circumstances, take an alternative module); the module grade for a re-taken module is capped at D-.
- A student will be notified of the reassessment opportunities in the results notification issued via the secure student portal (SOLE). It is the student's responsibility to be aware of and comply with any reassessments.

Requirements for Progression

- A student will be permitted to progress from Level 4 to Level 5 if, by the time of the reassessment Board of Examiners, they have passed at least 90 credits at Level 4. Outstanding Level 4 credits must normally be studied in the following academic year.
- A student will be permitted to progress from Level 5 to Level 6 if, by the time of the reassessment Board of Examiners, they have passed at least 210 credits, including 90 credits at Level 5. Outstanding Level 5 credits must normally be studied in the following academic year.

- A student who, by the time of the reassessment Board of Examiners, has failed 90 credits or more (after exhausting all reassessment opportunities) during the academic year, will have their registration with the University terminated
- If a student has not passed at least 90 credits by the reassessment Board of Examiners, the student is not permitted to progress to the next level and will be required to either complete outstanding reassessment or retake the failed modules the following academic year. Students will be able to carry forward any passed modules.
- For students following the UWIC pathway see section 18 above.

Requirements for Awards

Award	Requirement
Certificate of Higher Education Cert HE Environmental Management & Sustainability	In order to be eligible for the exit award of Certificate in Higher Education in the named subject/area of study, a student must have passed at least 120 credits in total including the mandatory modules for Level 4 of the award as specified on the award map.
Diploma of Higher Education DipHE Environmental Management & Sustainability	In order to be eligible for the exit award of Diploma in Higher Education in the named subject/area of study, a student must have passed at least 240 credits in total including the mandatory modules for Level 4 and Level 5 of the award as specified on the award map.

Degree (non-honours)	Passed a minimum of 300 credits with at least 90 credits at Level 5 or higher and a minimum of 60 credits at Level 6, including the mandatory modules for Level 5 and Level 6 of the award (not including the Dissertation module) as specified on the award map.
Degree with honours	Passed a minimum of 360 credits with at least 90 credits at Level 5 or higher and a minimum of 120 credits at Level 6, including all mandatory modules as specified on the award map.

Classification

The honours classification will be determined by whichever of the following two methods results in the higher classification.

- **Method 1:** Classification determined on the profile of the best grades from 60 credits attained at Level 5 and the best grades from 120 credits at Level 6. Level 5 and Level 6 grades count equally in the profile.
- **Method 2**: Classification determined on the profile of the best grades from 120 credits attained at Level 6 only.

For further information on honours degree classification, see the Taught Courses Regulatory Framework.

20. Graduate destinations, employability and links with employers

Graduate destinations

The Environmental Management & Sustainability programme prepares students for a broad range of rewarding careers in the environmental and sustainability sector, including environmental consultancy, roles in local government (e.g. environmental services, town and

country planning, climate change development officers), utility companies (e.g. Severn Trent Water, Network Rail, National Grid), and environmental analysis laboratories. Opportunities to pursue a research career would also be available. Graduates not wanting to go directly into employment also have the opportunity to gain further qualifications through relevant MSc or PhD programmes.

Student employability

Student employability is a key aspect of the Environmental Management & Sustainability programme. The course seeks to develop employability skills throughout all three years of study. Students can further enhance their employment prospects by taking a Professional Placement Year between Levels 5 and 6. Alternatively, students at Level 6 not taking a Professional Placement Year can select the optional Professional Work Placement module. Outside of these formal routes to enhance student employability, students are strongly encouraged to engage in work experience or voluntary work with local environmental organisations to demonstrate their commitment to the discipline and further develop new and existing skills.

The teaching and practice of skills are embedded within all mandatory modules, and students can reinforce and gain additional skills through the careful selection of optional modules. The acquisition of practical and transferable skills gained through studying in lab and field-based situations is a major factor contributing to the success of students gaining employment in the environmental and sustainability sector. As a consequence, lab and field-based activities feature strongly in the programme.

Careers advice is embedded in the curriculum at all three levels. At Level 4, students are introduced to the Careers & Employability Service, which is followed up at Level 5 with practice interviews and workshops on writing CVs and covering letters. At Level 6, students are strongly advised to pursue a Dissertation project closely aligned to their employment aspirations, and if possible, to engage with a relevant organisation enabling a student to demonstrate their skills etc.

Students are also encouraged to become student and graduate members of institutions recognised by future employers, for example, the Institution of Environmental Science (IES), the Institute of Environmental Management and Assessment (IEMA), and the Institute of Ecology and Environmental Management (IEEM).

On graduating students will have developed a wide range of intellectual, practical and social skills, and transferable skills demanded of graduates by employers. These will include the ability to work independently and as part of a team; communicate effectively (both written and oral); be highly competent in the use of information technology (IT); and be able to critically evaluate information.

Links with employers

During the design and development of the Environmental Management & Sustainability degree programme we created an Employers' Forum consisting of members from across the sector. This included representatives from environmental consultancies, and government and non-government organisations for which the application of environmental management and sustainability are integral. This has included AECOM, Atkins Global, SLR Consulting, Swift Ecology, and Worcestershire Wildlife Trust.

Forum members were consulted on all aspects of the course, including the educational aims and learning outcomes of the programme, through to the delivery of teaching and learning and the associated assessment strategy. Views were also sought on graduate skills and knowledge gaps to ensure the programme suitably prepared students for the workplace. On an annual basis, Forum members are consulted to determine whether any new developments in the sector should be considered and incorporated into the programme. The aim of this approach is to keep

the course current and vibrant, whilst maximising employment opportunities for our graduates. Employers also support the course by providing opportunities for Professional Work Placements, Placement Years, and by giving talks and hosting student visits.

The Environmental Management & Sustainability programme was also developed with respect to requirements of accreditation by the Institution of Environmental Studies (IES). This means the course has been designed to meet very high standards of teaching and learning, supported by a strong component of practical, field, and theoretical activities.

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 they take full advantage of the learning opportunities provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods for each module can be found in associated course documentation e.g. course handbooks, module handbooks and module specifications.

Appendix - Award maps for Single Honours Environmental Management & Sustainability at Levels 4, 5 and 6

Award Map for Level 4 BSc (Hons) Environmental Management & Sustainability

Module Code	Module Title	Credits (Number)	Status Mandatory (M) or Optional (O)	Pre-requisites	Co-requisites/ exclusions and other notes
ENMS1001	Environmental Investigations	30	M	-	-
SUST1001	An Introduction to Sustainability	30	M	-	-
ENMS1002	Management of Ecological Resources	30	M	-	-
ENMS1003	Global Environmental Issues	15	O	-	-
ENMS1004	Surveying Species & Habitats	15	O	-	-
LANGXXXX	Optional modules offered by the Language Centre	15	O	-	-

Single Honours Requirements at Level 4: Students must take 120 credits in total, 90 of which MUST include ENMS1001 (30 credits), SUST1001 (30 credits), and ENMS1002 (30 credits), plus two of the 15 credit optional modules from: ENMS1003, and ENMS1004. Optional modules can also include up to 15 credits drawn from a range of Language Centre modules in: Academic English for native and non-native speakers of English; Modern Foreign Languages; and Teaching English as a Foreign Language (TEFL). Details of the available Language Centre modules can be found on the Language Centre website: http://www.worcester.ac.uk/your-home/language-centre-module-options.html.

Award Map for Level 5 BSc (Hons) Environmental Management & Sustainability

Module Code	Module Title	Credits (Number)	Status Mandatory (M) or Optional (O)	Pre-requisites	Co-requisites/ exclusions and other notes
ENMS2001	Environmental Research Skills	30	M	-	-
ENMS2002	Environmental Analysis & Interpretation	30	M	-	-
ENMS2003	Biodiversity Conservation for Sustainable Futures	15	O	-	-
ENMS2004	Mediterranean Environments (Field Course)	15	O	-	-
GEOG2321	Meteorology & Climate	15	O	-	-
GEOG2322	River Monitoring & Assessment	15	O	-	-
GEOG2337	Climate Change: Science & Policy	15	O	-	-
LANGXXXX	Optional modules offered by the Language Centre	15	O	-	-

Single Honours Requirements at Level 5: Students must take 120 credits in total, 60 of which must include ENMS2001 (30 credits), and ENMS2002 (30 credits), plus four optional modules from: ENMS2003, ENMS2004, GEOG2321, GEOG2322, and GEOG2337. Optional modules can also include up to 15 credits drawn from a range of Language Centre modules in: Academic English for native and non-native speakers of English; Modern Foreign Languages; and Teaching English as a Foreign Language (TEFL). Details of the available Language Centre modules can be found on the Language Centre website: http://www.worcester.ac.uk/your-home/language-centre-module-options.html.

Award Map for Level 6 BSc (Hons) Environmental Management & Sustainability (with Professional Placement Year)

Module Code	Module Title	Credits (Number)	Status Mandatory (M) or Optional (O)	Pre-requisites	Co-requisites/ exclusions and other notes
ENMS3000	Professional Placement Year	0	M	-	Cannot be taken with ENMS3008

Single Honours Requirements at Level 6 for students taking BSc (Hons) Environmental Management & Sustainability with **Professional Placement Year** need to take the mandatory third year "Professional Placement Year" module between Levels 5 and 6.

Award Map for Level 6 BSc (Hons) Environmental Management & Sustainability

Module Code	Module Title	Credits (Number)	Status Mandatory (M) or Optional (O)	Pre-requisites	Co-requisites/ exclusions and other notes*
ENMS3001	Dissertation in Environmental Management & Sustainability	30	M	-	-
ENMS3002	Environmental Impact Assessment & Sustainable Development	15	M	-	-
ENMS3003	Environmental Restoration	15	M	-	-
ENMS3004	Environmental Pollution	15	M	-	-
ENMS3005	Environmental Management & Sustainability (Field Course)	15	O	-	-
ENMS3006	Corporate Environmental Sustainability	15	O	-	-
ENMS3007	Atmospheric Processes & Pollution Monitoring	15	O	GEOG2321	-
ENMS3008	Professional Work Placement	15	O	-	Cannot be taken with ENMS3000
GEOG3332	Countryside Conservation & Agricultural Change	15	O	-	-
GEOG3320	River Conservation & Management	15	O	-	-

Single Honours Requirements at Level 6: Students must take 120 credits in total, 75 of which must include ENMS3001 (30 credits), and ENMS3002, (15 credits), and ENMS3003 (15 credits), and ENMS3004 (15 credits), plus three optional modules from: ENMS3005, ENMS3006, ENMS3007, ENMS3008, GEOG3332, and GEOG3320.