

Programme Information & PLOs			
Title of the new programme – including any year abroad/ in industry variants			
MEnv Environmental Geography			
Level of qualification			
Please select:	Level 7		
Please indicate if the programme is offered with any year abroad / in industry variants			Year in Industry Please select Y/N
			Yes
			Year Abroad Please select Y/N
			Yes
Department(s): Where more than one department is involved, indicate the lead department			
Lead Department	Department of Environment and Geography		
Other contributing Departments:			
Programme Leader			
Dr Karen Thorpe			
Purpose and learning outcomes of the programme			
Statement of purpose for applicants to the programme			
<p>A degree Environmental Geography will equip you with skills and knowledge in physical geography in a way that will enable you to evaluate environmental problems and develop your own solutions. Your lecturers are experts in field such as environmental hazards, sea-level change, biogeography and palaeoecology. You will be trained to critically review relevant literatures in your field, and apply techniques and methods to designing research projects both locally and overseas. By your final year of study you are well equipped to undertake an independent research project in an area of environmental geography of your choice. You will be trained in the use and application of key digital learning technologies used by environmental geographers such as geographical information systems (GIS) and statistical packages to enhance your employability. Additionally, you will be trained in working and leading a team, and be provided with a range of opportunities to participate in groupwork in a range of tutorial, field and laboratory settings. Graduates from this degree are solution-oriented, inter-disciplinary thinkers who can communicate effectively, verbally and in writing, to a range of audiences, the key environmental challenges facing humanity and their solutions. Our environmental geography degree will open up careers in research, public bodies such as the Environment Agency, conservation, water management and sustainable business practices.</p> <p>Our MEnv programme is designed to provide a more vocational experience than the 3 year BSc, and is particularly useful for those who wish to move into a career in the environmental sector, or for those preparing for a PhD. During the additional year of study you will be exposed to real world problems and policies through studying links between business and the environment. The programme also offers you the opportunity to design and undertake an advanced research project leading up to the preparation of a research publication-style dissertation. Through studying for MEnv you will become more aware of how our environment is managed, become proficient in research design and implementation, and further develop key skills in communication, team work and data analysis to increase your employability.</p>			
Programme Learning Outcomes Please provide six to eight statements of what a graduate of the programme can be expected to do.			
Taken together, these outcomes should capture the distinctive features of the programme. They should also be outcomes for which progressive achievement through the course of the programme can be articulated, and which will therefore be reflected in the design of the whole programme.			
PLO	On successful completion of the programme, graduates will be able to:		

1	Debate, interpret and explain the causes, scales and impacts of issues such as climate change, glacial retreat and natural hazards using appropriate methods and norms, and engage critically with theory, knowledge and emerging issues in physical and environmental geography [Knowledgeable and aware]
2	Obtain, synthesise and critically evaluate information from a wide range of reliable sources, and collate this information to establish current understanding and independently identify key research questions in specialised areas of physical and environmental geography [Independent learner]
3	Cut across disciplinary boundaries to link knowledge and experience from physical geography, biology, chemistry, biogeography, the social sciences, to understand the physical environment, its impact on society and links with the management and business sector [Interdisciplinary thinker]
4	Identify knowledge gaps, plan, design and execute advanced research in environmental geography individually or within a team using critically-selected qualitative and quantitative methods in the field and other settings [Creator of new Knowledge]
5	Design and undertake critical analyses of qualitative and quantitative data using appropriate tools such as GIS and statistical packages to draw meaningful conclusions from research aimed at understanding the functioning of the physical environment, and its links with the human environment [Analytical]
6	Effectively communicate knowledge, complex ideas and persuasive arguments to professional and non-specialist audiences using verbal, written, visual and digital media and research publications [Effective communicator]
7	Recommend sustainable solutions to environmental problems that consider the broader social and political contexts, and the ethical implications of their application by applying knowledge, theories and approaches from physical geography and related disciplines [Problem solver]
8	Work responsibly as part of a team or as a team-leader, including in an applied setting, to set challenging yet attainable goals and make an important contribution to addressing the challenges facing the world through the integration of physical and environmental geography [Team player]

Programme Learning Outcome for year in industry (where applicable)

For programmes which lead to the title 'with a Year in Industry' – typically involving an additional year – please provide either a) amended versions of some (at least one, but not necessarily all) of the standard PLOs listed above, showing how these are changed and enhanced by the additional year in industry b) an additional PLO, if and only if it is not possible to capture a key ability developed by the year in industry by alteration of the standard PLOs.

We have altered a number of PLOs relevant to our Year in Industry programme and so have provided a separate proforma for this programme.

Programme Learning Outcome for year abroad programmes (where applicable)

For programmes which lead to the title 'with a Year Abroad' – typically involving an additional year – please provide either a) amended versions of some (at least one, but not necessarily all) of the standard PLOs listed above, showing how these are changed and enhanced by the additional year abroad or b) an additional PLO, if and only if it is not possible to capture a key ability developed by the year abroad by alteration of the standard PLOs.

Explanation of the choice of Programme Learning Outcomes Please explain your rationale for choosing these PLOs in a statement that can be used for students (such as in a student handbook). Please include brief reference to:

i) Why the PLOs are considered ambitious or stretching?

Through achieving our programme outcomes you will be equipped with the abilities and confidence to improve our understanding of the world around us and work towards developing sustainable solutions to today's environmental problems. Our outcomes require you to be critical in terms of the information you use and the research tools you employ, persuasive and clear in the ways in which you communicate and interdisciplinary in your approaches towards understanding the environment and recommending solutions to problems. These are all characteristics that we will help you to develop through your MEnv Environmental Geography studies and will enable you to be successful in your future career.

ii) The ways in which these outcomes are distinctive or particularly advantageous to the student:

The programme outcomes capture the key employability skills that graduates of an Environmental Geography integrated masters will be asked to demonstrate when applying for successful and rewarding careers in this field of work. By providing you with a clear pathway towards achieving these learning outcomes through Key Points Training (KPT) and plentiful opportunities to use and practice these skills you will be able to draw on specific examples of work that you have undertaken to evidence your accomplishments to potential future employers. Through interactions with external environmental and industrial organisations you will see how the skills embedded in our programme outcomes can be used in the workplace.

iii) How the programme learning outcomes develop students' digital literacy and will make appropriate use of technology-enhanced learning (such as lecture recordings, online resources, simulations, online assessment, 'flipped classrooms' etc)?

a. Digital literacy - Through our MEnv in Environmental Geography you will develop the key digital skills needed for effective communication, finding and using reliable sources, and analysing quantitative and qualitative datasets. You will receive training in the use of the relevant digital tools at key points throughout your degree and be provided with opportunities to use them in a range of applications. This will ensure that when you graduate you are ready to effectively apply these tools in a work-based setting; b. Technology-enhanced learning - We have developed an online site (the KPT Skills Hub) that you can use to develop key skills, and improve and progress throughout your degree. The online Skills Hub complements the teaching you will receive during contact hours and gives you the tools and flexibility to work on key skills development in your own time.

iv) How the PLOs support and enhance the students' employability (for example, opportunities for students to apply their learning in a real world setting)?

The programme's employability objectives should be informed by the University's Employability Strategy:

<http://www.york.ac.uk/about/departments/support-and-admin/careers/staff/>

The programme outcomes capture the key employability skills that graduates of an MEnv in Environmental Geography will be asked to demonstrate when applying for successful and rewarding careers in this field of work. By providing you with a clear pathway towards achieving these learning outcomes through Key Points Training (KPT) and plentiful opportunities to use and practice these skills you will be able to draw on specific examples of work that you have undertaken to evidence your accomplishments to potential future employers. Through interactions with external environmental and industrial organisations you will see how the skills embedded in our programme outcomes can be used in the workplace. *(note same text as in box ii as I think the link to employability is the major benefit to students)*

vi) How will students who need additional support for academic and transferable skills be identified and supported by the Department?

In every case Key Points Training is linked to a key piece of assessment. The result of this assessment will signpost to you and to the department how you are progressing towards the programme outcomes as you move through your programme. We have developed an online resource (the KPT Skills Hub) that you can use outside of contact hours to support your effective development of the skills needed to be successful in your chosen degree programme. Our programmes are also designed so that you have a wide range of opportunities to use and practice key skills developed in KPT training in a number of other core and optional modules.

vii) How is teaching informed and led by research in the department/ centre/ University?

We are a research-active department and share our latest research findings and methods with you through our teaching. Throughout your studies you will be actively involved in designing and undertaking research projects aimed at both understanding the world around us and solving environmental problems. All of our courses include fieldtrips that allow you to see how the theory and knowledge you have been taught in lectures apply in a range of national and international settings. Through tutorials and seminars you will gain experience in discussing cutting-edge research and develop key communication skills. Lectures are supplemented by guest speakers from the environmental think-tank the Stockholm Environment Institute (SEI), and a range of external environmental and industrial organisations, exposing you to potential areas of future employment throughout your studies.

Stage-level progression

Please complete the table below, to summarise students' progressive development towards the achievement of PLOs, in terms of the characteristics that you expect students to demonstrate at the end of each year. This summary may be particularly helpful to students and the programme team where there is a high proportion of option modules.

Note: it is not expected that a position statement is written for each PLO, but this can be done if preferred (please add information in the 'individual statement' boxes). For a statement that applies across all PLOs in the stage fill in the 'Global statement' box.

Stage 0 (if your programme has a Foundation year, use the toggles to the left to show the hidden rows)**Stage 1**

On progression from the first year (Stage 1), students will be able to:

Engage with theory, knowledge and emerging issues in Environmental Geography and be able to undertake research as part of a group

PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8
Interpret and explain fundamental concepts and current and emerging issues in environmental and physical geography	Identify and synthesise reliable, relevant sources in a coherent form for information needs	Understand the importance of interdisciplinarity in environmental geography, including the complex interactions occurring within and between the physical, natural and human environments	Collect high quality environmental data using a range of approaches and design and undertake guided research as part of a group	Carry out fundamental calculations, organise and summarise datasets and analyse and interpret field data with guidance using basic statistical analysis and programmes	Communicate effectively in essays, scientific reports, presentations and other forms of visual communication, and confidently participate in class discussions	Understand and explain a range of solutions to environmental problems	Work effectively as part of a team in laboratory, fieldwork and classroom settings

Stage 2

On progression from the second year (Stage 2), students will be able to:

Use theoretical and practical knowledge to design and undertake research as part of a group, and critically evaluate sustainable solutions to environmental problems

PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8
Interpret, explain and critically evaluate advanced concepts in environmental and physical geography, and use this knowledge to debate sustainable solutions to environmental problems	Critically evaluate sources to develop ideas in written work and other forms of communication	Independently design field and laboratory studies and generate ideas that incorporate approaches and ideas from a range of academic disciplines	Design and undertake research as part of group, including the formulation of research questions	Apply fundamental calculations to environmental problems, and analyse and interpret large environmental datasets independently using advanced statistical analysis	Develop persuasive arguments in written work, verbally and through other forms of communication including newspaper articles and videos	Critically evaluate solutions to environmental problems	Work effectively as part of a team or as a team leader in laboratory, fieldwork and classroom settings

Management and Admissions Information

This document applies to students who commenced the programme(s) in:

2017/18

Interim awards available Interim awards available on undergraduate programmes (subject to programme regulations) will normally be: Certificate of Higher Education (Level 4/Certificate), Diploma of Higher Education (Level 5/Intermediate), Ordinary Degree and in the case of Integrated Masters the Bachelors with honours. Please specify any proposed exceptions to this norm.

Certificate of Higher Education (Level 4/Certificate)
Diploma of Higher Education (Level 5/Intermediate)

Admissions Criteria

TYPICAL OFFERS

A levels

AAB

AAB/ABB for L7F6,

L7F7, L7F8, L7F9

IB Diploma Programme

34 points

35/34 points for L7F6,

L7F7, L7F8, L7F9

BTEC Extended Diploma

DDM

DDD/DDM for L7F6,

L7F7, L7F8, L7F9

O

Length and status of the programme(s) and mode(s) of study

Programme	Length (years)	Status (full-time/part-time) Please select	Start dates/months (if applicable – for programmes that have multiple intakes or start dates that differ from the usual academic year)	Mode				
				Face-to-face, campus-based		Distance learning		Other
BSc (Hons) Environmental Geography	3	Full-time	n/a	Please select Y/N	Yes	Please select Y/N	No	n/a

Language(s) of study

English.

Language(s) of assessment

English.

Programme accreditation by Professional, Statutory or Regulatory Bodies (PSRB)

Is the programme recognised or accredited by a PSRB

Please Select Y/N: Yes No
if No move to next Section
if Yes complete the following questions

Name of PSRB

Institute of Environmental Sciences, CHES

Are there any conditions on the approval/ accreditation of the programme(s)/ graduates (for example accreditation only for the full award and not any interim award)

Additional Professional or Vocational Standards

Are there any additional requirements of accrediting bodies or PSRB or pre-requisite professional experience needed to study this programme?

Please Select Y/N: Yes No
if Yes, provide details

(max 200 words)

University award regulations

The University's award and assessment regulations apply to all programmes: any exceptions that relate to this programme are approved by University Teaching Committee and are recorded at the end of this document.

Are students on the programme permitted to take elective modules?

(See: <https://www.york.ac.uk/media/staffhome/learningandteaching/documents/policies/Framework%20for%20Programme%20Design%20-%20UG.pdf>)

Please Select Y/N: Yes No

Careers & Placements - 'With Placement Year' programmes

Students on all undergraduate and integrated masters programmes may apply to spend their third year on a work-based placement facilitated by Careers & Placements. Such students would return to their studies at Stage 3 in the following year, thus lengthening their programme by a year. Successful completion of the placement year and associated assessment allows this to be recognised in programme title, which is amended to include 'with Placement Year' (e.g. BA in XYZ with Placement Year'). The Placement Year also adds a Programme Learning Outcome, concerning employability. (See Careers & Placements for details).

In exceptional circumstances, UTC may approve an exemption from the 'Placement Year' initiative. This is usually granted only for compelling reasons concerning accreditation; if the Department already has a Year in Industry with criteria sufficiently generic so as to allow the same range of placements; or if the programme is less than three years in length.

Programme excluded from Placement Year?	Yes	If yes, what are the reasons for this exemption: Environment has an existing 'Year in Industry' which has an assessment mechanism & placement criteria that are very similar to the Careers With Placement Year.
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Study Abroad (including Year Abroad as an additional year and replacement year)

Students on all programmes may apply to spend Stage 2 on the University-wide North America/ Asia/ Australia student exchange programme. Acceptance onto the programme is on a competitive basis. Marks from modules taken on replacement years count toward progression and classification.

Does the programme include the opportunity to undertake other formally agreed study abroad activities? All such programmes must comply with the Policy on Study Abroad

<https://www.york.ac.uk/staff/teaching/procedure/programmes/design/>

Please Select Y/N:	Yes
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Additional information

Transfers out of or into the programme

ii) Transfers into the programme will be possible? (please select Y/N)	No
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Additional details:

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ii) Transfers out of the programme will be possible? (please select Y/N)	No
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Additional details:

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Exceptions to University Award Regulations approved by University Teaching Committee

Exception	Date approved
Please detail any exceptions to University Award Regulations approved by UTC	

Date on which this programme information was updated:

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07/09/2018

Please note:

The information above 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 that are provided.

Detailed information on the learning outcomes, content, delivery and assessment of modules can be found in the module descriptions.

The University reserves the right to modify this overview in unforeseen circumstances, or where the process of academic development, based on feedback from staff, students, external examiners or professional bodies, requires a change to be made. Students will be notified of any substantive changes at the first available opportunity.

Programme Map

Please note: the programme map below is in interim format pending the development of a University Programme Catalogue.

Programme Map: Module Contribution to Programme Learning Outcomes

This table maps the contribution to programme learning outcomes made by each module, in terms of the advance in understanding/ expertise acquired or reinforced in the module, the work by which students achieve this advance and the assessments that test it. This enables the programme rationale to be understood:

- Reading the table vertically illustrates how the programme has been designed to deepen knowledge, concepts and skills progressively. It shows how the progressive achievement of PLOs is supported by formative work and evaluated by summative assessment. In turn this should help students to understand and articulate their development of transferable skills and to relate this to other resources, such as the Employability Tutorial and York Award;
- Reading the table horizontally explains how the experience of a student at a particular time includes a balance of activities appropriate to that stage, through the design of modules.

Stage	Module		Programme Learning Outcomes							
			PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
			Identify knowledge gaps, plan, design and execute advanced research in environmental geography individually or within a team using critically-selected qualitative and quantitative methods in the field and other settings [Creator of new Knowledge]	Design and undertake critical analyses of qualitative and quantitative data using appropriate tools such as GIS and statistical packages to draw meaningful conclusions from research aimed at understanding the functioning of the physical environment, and its links with the human environment [Analytical]	Effectively communicate knowledge, complex ideas and persuasive arguments to professional and non-specialist audiences using verbal, written, visual and digital media and research publications [Effective communicator]	Recommend sustainable solutions to environmental problems that consider the broader social and political contexts, and the ethical implications of their application by applying knowledge, theories and approaches from physical geography and related disciplines [Problem solver]	Work responsibly as part of a team or as a team-leader, including in an applied setting, to set challenging yet attainable goals and make an important contribution to addressing the challenges facing the world through the integration of physical and environmental geography [Team player]	Effectively communicate knowledge, complex ideas and persuasive arguments to professional and non-specialist audiences using verbal, written, visual and digital media and research publications [Effective communicator]	Recommend sustainable solutions to environmental problems that consider the broader social and political contexts, and the ethical implications of their application by applying knowledge, theories and approaches from physical geography and related disciplines [Problem solver]	Work responsibly as part of a team or as a team-leader, including in an applied setting, to set challenging yet attainable goals and make an important contribution to addressing the challenges facing the world through the integration of physical and environmental geography [Team player]
Stage 1	Environmental Geography Research	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources				Training in verbal presentation; Training in structuring an essay		Practice in working as a group

		By working on (and if applicable, assessed through)	Reading and discussing papers on specific physical geography topics (assessed by short answer questions)	Discussing tutorial papers and short answer questions assessment				Oral presentation of a tutorial paper (assessed presentation); Assessed essay on an environmental geography topic chosen by the student. The presentation and essay are linked.		Discussing tutorial papers as a group. Assessed by summative contribution mark.
Stage 1	Data Analysis for Environmental Research	Progress towards PLO				Exposure to different approaches of data collection	Training in data handling and analysis			
		By working on (and if applicable, assessed through)				Working with datasets collected by staff in their research. Dataests will be introduced by staff in short videos.	Organising and analysing datasets collected and introduced by individual staff members (assessed by small tasks collated into a portfolio)			
Stage 1	Ecological Principles for the Environment	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Practice in primary data collection	Practice in data handling and statistical analysis	Training in scientific report writing		Practice in working as a group
		By working on (and if applicable, assessed through)	Lectures and practicals on ecological theories and skills (assessed by exam)	Independent study: finding sources on ecological theories in preparation for scientific report assessments	Lectures and practicals on ecological problems and how society can manage and affect these (assessed by scientific reports)	Lecturer-defined practicals: primary data are collected on ecology-based field studies	Statistics: Analysis and interpretation of ecological data (assessed in scientific report)	Write up of scientific reports on ecological research as summative assessments		Groupwork during data collection during field practicals.
Stage 1	Physical Geography	Progress towards PLO	Develops knowledge, understanding and awareness	Training in finding and using sources		Practice in primary data collection	Training in discipline-specific mathematics and GIS	Practice in writing a scientific report		Practice in working as a group

		By working on (and if applicable, assessed through)	Studying global geomorphology and the physical environment (assessed by essay)	Training and preparation of an essay incorporating literature on data collected from a riverine system		Collection of field data from a riverine system.	Use of GIS for data collection, and training in key mathematical formulae used in physical geography (assessed abstract on GIS exercise)	Preparing a summative scientific report on data collected from a riverine system		Groupwork during data collection during field practicals.
Stage 1	Environment, Development and Society	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity			Practice in verbal communication. Training in structuring an essay.	Develops awareness of environmental problems and their solutions	Practice in working as a group
		By working on (and if applicable, assessed through)	Discussions and debates on a range of developmental and sustainability issues. The topics serve as a platform during the tutorial sessions to critically engage with theory covered during the lecture sessions (assessed by exam)	Independent study and in-class discussions: Identifying literature from a range of sources and synthesise the information in a coherent form to be used during discussion sessions and exam assessment	Preparation for seminars that involve literature search and reviewing articles from a range of disciplines e.g development studies, environmental sciences and human geography			Preparing a power point presentation as a group, debates and discussions on sustainability issues during seminars	Seminar discussion topics which are structured to encourage problem based learning on sustainability problems and how they are entwined in legal, social, and ethical issues are set and solutions for which are discussed during the discussion sessions	Working as a part of a team during seminar discussions
Stage 1	Dynamic Earth	Progress towards PLO	Develops knowledge, understanding and awareness			Practice in primary data collection				Practice in working as a group
		By working on (and if applicable, assessed through)	Studying how the planet 'works' through an introduction to the spheres (exam assessment)			Lecturer-defined practicals: primary data are collected during lab practicals and a field trip to the North Yorks Moors focussing on rock identifications and ocean processes.				Working as a part of a team during lab and field studies

Stage 1	Field Project (EG & ES)	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Practice in primary data collection	Practice in data handling and statistical analysis	Practice in scientific report writing, note-keeping and training in poster preparation	Develops awareness of environmental problems and their solutions	Training in team working
		By working on (and if applicable, assessed through)	Field observation, data collection and discussion on land use, natural hazards, climate change (assessed by poster, project report and field note book) and flood control course (assessed by contribution mark for flood control course)	Independent study: Independent research for preparation of poster (range of potential topics spanning ES/EG). Independent research for summative project report.	Studying topics that encompass both geographical and environmental science themes (assessed in report)	Mostly lecturer-defined research projects but some student-led aspects: Planning and executing field project and daily mini-projects (assessed by field note book)	Statistics: Analysing and interpreting project dataset. Analysing and interpreting poster marks data in computer practical (assessed by report)	Visual communication: preparing a poster (summative assessment). Written communication: preparing a summative project report. Mixed visual and written communication: preparing an assessed field notebook. Verbal communication: presentation of flood control strategy to Yorkshire Water and the Environment Agency (assessed via contribution mark for flood control course)	Developing a project report which asks students to use their field data to make land management recommendations. Preparing a flood control strategy for York.	Extensive teamwork in preparing a poster before field trip, in daily mini-projects on field trip and in collecting field data for project report. Working as a team and teamwork training during the flood control course. Assessed by summative contribution mark for flood control course.
Stage 2	Biogeography	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills	Develops skills in oral, written and visual communication		Practice in working as a group

		By working on (and if applicable, assessed through)	Studying the patterns and process of temperate ecosystems . Assessed via scientific report.	Independent study: Independent background research and field observation on pattern and process of temperate ecosystems. Produce a summative field report	Bringing together a range of information from the fields of ecology, environmental management and geography in a summative report.	Designing a field/ lab project as part of a group. Defining a research question, aim and objectives, sampling strategy, collecting data in the field/ lab, analysing the data and communicating the findings.	Statistics: Analysis of collected experimental data and presented in a summative report	Written: preparing a summatively assessed scientific report		Groupwork: Working in groups to carry out field-based practicals
Stage 2	Geographical Information Systems	Progress towards PLO	Develops knowledge, understanding and awareness		Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills	Develops skills in written communication		
		By working on (and if applicable, assessed through)	Undertaking a GIS project on one of three project topics (wind power; flood risk mapping; air pollution and health). Assessed in the scientific report.		Undertaking projects which call for the combination of physical science and socio-economic spatial dataset. Assessed in summative report.	Student-led project: There are many ways in which these multiple spatial datasets can be combined in carrying out the project allowing new insights and knowledge to be created. Assessed in summative report.	GIS, Statistics: Designing and performing GIS analysis of diverse spatial datasets and reporting results in a summative report. Encouragement is given to perform some statistical analysis beyond the GIS work.	Written: Reporting the project work in a summative scientific report.		
Stage 2	Earth Processes and Landforms	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources			Develops data handling and analysis skills	Develops skills in written communication		Practice in working as a group

		By working on (and if applicable, assessed through)	Covering material and fieldtrips on coastal and past glacial environments . Field trip locations are Filey Bay (beach profiling and sediment description) and the Lake District (examine past glacial environments and interpret the landscape). Knowledge assessed by exam.	Independent study: Literature search using journals for report and additional background reading throughout the module especially in preparation for the exam			Statistics: analysis of field data for a summative report. Field based analysis of sediment	Written: write up of summatively assessed report in scientific style		Groupwork: Working as a group to collect data for individual reports
Stage 2	Environmental Systems Project	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources. Training in critical evaluation of sources.		Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills	Develops skills in oral and written communication	Develops awareness of environmental problems and provides experience in critically evaluating sustainable solutions	Practice in working as a group
		By working on (and if applicable, assessed through)	Undertaking research for group project on the impacts of development on the environment (assessed in a summative verbal assessment and scientific report)	Independent study: Literature search for project report exploring one aspect of human impacts on the environment (assessed in scientific report)		Student-led research projects, groups: Designing a field/ lab project as part of a group. Defining a research question, aim and objectives, sampling strategy, collecting data in the field/ lab, analysing the data and communicating the findings. Research design skills summatively assessed as part of a group research plan.	Statistics: Analysis of field/lab data. Use of SPSS. Independent design of data analysis. Assessed in summative assessments: verbal presentation of a research plan and scientific report.	Written: Preparation of a summatively assessed group research plan; Individual project write-up as a scientific report on data collected in group project. Report includes a technical summary for a non-specialist audience (University of York Estates).	Students are asked to propose sustainable solutions to mitigating the impacts of development on the environment. Assessed in a summatively assessed scientific report.	Working as a group to design and perform research project. Teamworking skills summatively assessed as part of group research plan.
Stage 2	Residential Field Course	Progress towards PLO	Develops knowledge, understanding and awareness		Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills	Develops skills in oral and written communication	Develops awareness of environmental problems and their solutions	Practice in working as a group

		By working on (and if applicable, assessed through)	Day trips to sites in Tenerife to understand the ecology of the island; anthropogenic pressures and how the island is responding to these. Assessed by an exam.		Open exam questions which require students to draw upon wide range of information picked up through the week	Student-led research projects, groups: Two day group research project. Assessed by field notebook.	Statistics: Statistical analysis of data generated during the group project	Oral: Presentation of the group project to peers and lecturers; Written: keeping a field notebook	Studying anthropogenic pressures on an island environment and how it is responding to these (assessed in exam)	Groupwork: Working in a group of around six students to design and deliver a research project and present the results to their peers. Assessed by group presentation.
Stage 2	Climate Change: Science, Observation and Impacts	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling, and research project design	Develops skills in scientific modelling	Develops skills in written communication	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	Practice in working as a group
		By working on (and if applicable, assessed through)	Studying the public perception, best evidence of impacts, mitigation and adaptations to climate change including recommendations for future emissions reductions in carbon.	Independent study: Scientific report is an independent piece of work that involves obtaining, synthesising and critically evaluating complex information on climate change from a wide range of reliable sources	Media seminar which involves students thinking about something other than the science of climate change and how the need to sell papers affects reporting. The scientific report involves working across disciplinary boundaries. As well as considering the scientific aspects behind climate change, students also consider the social, political and economic aspects.	Student-led research projects, groups: For a scientific report, students plan, design and execute research as an individual to address climate change using modelling software	Modelling: For a report, they use quantitative data to make recommendations for emissions control in the future. This includes carrying out a set of model runs where it is possible to generate large amounts of data, so critical evaluation of the results to provide a coherent report is key.	Written: effectively communicating knowledge, complex ideas and persuasive arguments for a summative written report. Design and write an eye-catching yet scientifically informative summative newspaper article on climate change.	A report recommending sustainable solutions to climate change considering the broader social, political and environmental contexts, and the ethical implications of their application by applying knowledge, theories and approaches from the module and wider degree	Groupwork: Work responsibly as part of a team or as a team-leader to design and write an eye catching yet scientifically informing newspaper article on climate change
Stage 2	Energy and the Environment	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity		Develops data handling and analysis skills	Develops skills in written communication	Develops awareness of environmental problems and critically evaluating their solutions	Develops team-working skills

		By working on (and if applicable, assessed through)	Gaining knowledge on technical, social and spatial dimensions of energy systems and how these interact with environmental parameters ; students also gain knowledge and experience of some of the key methodologies used in managing and protecting the environment . (assessed by exam)	Independent study: The summative coursework essay requires selection of a target country and then detailed research and analysis of country-specific energy issues and policies to determine the extent to which environmental problems influence energy policy.	Studying energy as a socio-technical system. The summative coursework essay in particular requires understanding and expression of energy as a socio-technical system.		Secondary data handling: The summative coursework essay requires analysis of country-specific energy issues and policies to determine the extent to which environmental problems influence energy policy.	Written: Preparation of argument-based summative essay	Undertaking problem-based tasks in groups across five practical sessions exploring EIA, SEA, carbon policy, energy futures, community engagement . Assessed by summative essay and exam.	Groupwork: Working as a group on problem-based tasks across five practical sessions (EIA, SEA, carbon policy, energy futures, community engagement)
Stage 2	Ocean Management and Conservation	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity		Develops data handling and analysis skills		Develops awareness of environmental problems and their solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Lectures and practical on a wide range of topics of interest to ocean conservation and management (assessed by exam)	Independent study: Reading around the lectures (assessed in exam)	Discussing environmental management problems which are invariability interdisciplinary		Statistics: Practical requires data analysis and interpretation		Studying marine conservation and management approaches and issues (assessed by exam)	Groupwork: Lab practical offers opportunity for group work
Stage 2	Ecosystem Processes	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills and experience in performing scientific calculations	Develops skills in written and oral communication	Develops awareness of environmental problems and their solutions	Develops team-working skills

		By working on (and if applicable, assessed through)	Preparation of lectures, seminars, practicals (and reports) and exam on key ecosystem processes involving microbes, plants and soils , and their responses to human activities. Assessed by exam and scientific reports.	Independent study and in-class discussions: Literature search for summative lab reports and seminars on microbial, soil and plant ecology	Seminar preparation and discussions on current ecological topics	Student-led research projects, groups: Design of research carried out in field/lab practicals on environmental control of microbial and plant growth (group work). Assessed by scientific reports.	Calculations: various key plant and soil variables, microbial growth rate. Statistics: Descriptive and inferential statistical analysis of data sets collected in field and lab using Excel and SPSS. Assessed in summative scientific reports.	Written: Write-up of research results as summative scientific reports; Oral: Seminar discussions and presentation	Designing and undertaking field /laboratory experiments on impacts of land use change and propose management recommendations to improve plant community development. Assessed in summative scientific report on controls on plant growth.	Group work: lab practicals and seminars
Stage 2	Food, Space, Culture and Society	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity			Develops skills in oral and written communication	Develops awareness of environmental problems and critically evaluating their solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Background research preparing for seminar sessions, an summative coursework and exam on topics related to sustainable food production and consumption.	Independent study and in-class discussions: Identifying literature from a range of academic sources and synthesise the information in a coherent form to be used during seminar sessions and in summative coursework and exam	Preparation for seminars, and summative coursework and exam that involve literature search and reviewing articles across economic, social and environmental geographies to critique discourses on sustainable food consumption debates.			Oral, written: Articulating ideas, principles and theories effectively and fluently verbally in presentations and discussions and in writing in summative essays and exam	Summative essay that examines the roles of society, policy and governance, in shaping and facilitating a move towards a ecologically, economically and socially sustainable food system	Groupwork: Working individually and as groups during seminar presentations
Stage 2	Environmental Geochemistry	Progress towards PLO				Develops skills in data collection and handling	Develops skills in performing scientific calculations			Develops team-working skills

		By working on (and if applicable, assessed through)				Lecturer-led laboratory practicals: A range of laboratory practicals and calculation methods that students may choose to apply in their 3rd / 4th year projects	Calculations: A range of laboratory and paper based practicals in which environmental science data is analysed to gain insight and information about various topics relevant to environmental science. Assessed by summative coursework and exam.			Groupwork: Working in groups to carry out laboratory practicals
Stage 3	Advanced Literature Review	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding and using sources to establish current understanding and identify knowledge gaps		Develops skills in identifying knowledge gaps and using them to design advanced research		Develops skills in oral and written communication		
		By working on (and if applicable, assessed through)	<u>Independent research of a specific topic, critiquing the literature to identify knowledge gaps and write the review.</u> <u>Assessed literature review.</u>	Independent study: Independently identifying relevant literature and exploring the topic in detail. Assessed as part of the literature review.		Identifying knowledge gaps and development of project aims for the final year project. Assessed as part of a literature review.		Oral, written: Communication of the literature and knowledge gaps identified in the form of an oral presentation and a written literature review.		
Stage 3	Research Skills and Statistical Methods	Progress towards PLO	Develops knowledge, understanding and awareness		Develops awareness of the importance of interdisciplinarity	Develops skills in designing advanced research	Develops skills in handling and analysing datasets using advanced approaches and software	Develops skills in oral and written communication		Develops team-working skills

		By working on (and if applicable, assessed through)	<u>Interpretation and criticality in analysing data / assessing others' data analysis using quantitative and qualitative methods. Assessed in the summative written report.</u>		Handling quantitative and qualitative from the fields of ecology, animal behaviour, agriculture and social science case studies	Studying the research process from research question to publication and hence while not addressed specifically, this is implicit in the research process presented.	Data handling, statistics, R: The entire module is analytical as it addresses all the key steps for research design, data collection, analysis and presentation. Assessed in a summative report.	Oral: Engaging in all taught sessions in frequent whole class discussions and small group discussions. Written: Lectures on report-writing, cv preparation and giving presentations. Coursework assessment which is a written report.		Help each other learn in this technical subject through class discussions during practical sessions and posting questions and helpful information on an online forum for all to see.
Stage 3	Environmental Hazards	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity		Develops data handling and analysis skills	Develops skills in written communication		
		By working on (and if applicable, assessed through)	Studying the <u>physical processes behind natural hazards.</u> Assessed by exam.	Independent study: Independent work for summative coursework	Considering societal impacts of mitigation strategies and perceptions of hazard risk, including in popular media. Assessed in summative coursework.		Statistics: Analysis of data to examine flooding risk. Assessed in summative report.	Written: Writing a technical report		
Stage 3	Glaciers, Ice Sheets and Climate Change	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources		Develops skills in data collection and handling	Develops data handling and analysis skills	Develops skills in written and visual communication		

		By working on (and if applicable, assessed through)	Remote sensing (RS) practicals and summative report write-up which requires students to interpret data in light of what we know about climate change and glacier retreat	Independent study: The RS practicals require students to download, process and interpret data, and then to link this with the literature. They work on their own chosen glacier, and do so independently. Assessed by summative report.		Lecturer-led practicals: Students learn and apply some quite advanced RS processing approaches within a GIS. Assessed by summative report.	Data handling: Students must interpret the data they work on and analyse, and must consider the significance of their findings. Although students are free to take their investigations in the direction of their choosing, often they link to climate change and wider glacial changes. Assessed by summative report.	Visual: By using imagery, graphs, tables and statistics. Written: written word in summative report.		
Stage 3	Coastal Environments	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity			Develops skills in oral communication	Develops awareness of environmental problems and provides experience in evaluating solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Studying the physical processes operating within coastal environments at a range of temporal and spatial scales and their classification. Assessed by exam and problem-based learning connected with fieldtrip. Fieldtrip to Paull, Mappleton where students receive a talk by Coastal Officer and Skipsea.	Independent study: Literature search for PBL using journals and consultancy reports and additional reading throughout module and in preparation for the exam	Attending lectures and seminars. Application of knowledge in the field.			Oral: Discussion of ideas in PBL groups and individual and seminars using discussion questions as a guide	Studying how modification of the coastline has resulted from anthropogenic activity and the likely impacts of future climate change (e.g. sea-level rise and increased storminess)	Groupwork: Working as a group during PBL

Stage 3	Atmosphere and Ocean Science	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity		Develops skills in scientific modelling, and experience in performing scientific calculations	Develops skills in oral and visual communication	Develops awareness of environmental problems and their solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Studying the <u>science of the oceans an the atmosphere, how they interact and are altered by human activities</u> . Assessed by exam and in summative oral assessment.	Independent study and in-class discussions: Independent reading for seminar discussions and to support lectures and prepare for exam. Independent research task set at the end of each lecture. Assessed in oral presentation and exam.	Studying atmospheric and ocean science and the boundaries between them. Also discussing aspects of chemistry, physics and biology. Trip to City of York Council Air Quality Unit gives students experience of working at the coal face and applying the theory learnt in lectures. Assesed in summative oral presentation and exam.		Calculations: Examples classes for both the ocean and atmospheric science aspects; Modelling: PC practical on clean and polluted air.	Oral: Discussion in groups during seminars, oral presentation of work in coursework assessment; Visual, digital: Students plan a demonstration of a physical oceanography concept after consideration of relevant theory and then document the process through a short film or photographs, which form the basis of a presentation.	PC practical on clean and polluted air.	Groupwork: Working in a team to prepare material for coursework presentation.
Stage 3	Glaciology and Volcanism in Iceland	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources		Develops skills in data collection and handling, and research project design	Develops data handling and analysis skills	Develops skills in oral and written communication		Develops team-working skills

		By working on (and if applicable, assessed through)	<u>Studying a range of relevant geographical topics relevant to Iceland. Assessed in oral presentations and field note-book.</u>	Independent study: Preparation for summative scientific paper, requiring students to explore their chosen topic in great detail and depth.		Lecturer-led research: Students must analyse and synthesise data gathered each day in the field, and present this each evening (in groups). They use GIS, statistics and a range of field-techniques. Many students go on to use GIS approaches in their independent write-up too; Student-led projects: students design their own independent project for the assessment.	Statistics: students continuously analyse and interpret data collected in the field, and to consider the significance of their findings for understanding the landscape.	Oral: Communication of findings and interpretation of data in a series of summative group presentations in Iceland; Written: in summatively assessed field-note books and in the form of a summative report write-up.		Groupwork: Field work and presentations throughout the week are both carried out in groups.
Stage 3	Biodiversity and Society	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling	Develops data handling and analysis skills	Develops skills in oral and visual communication		Develops team-working skills
		By working on (and if applicable, assessed through)	<u>Studying links between biodiversity and society. Assessed by exam.</u>	Independent study and in-class discussions: reading for seminar discussions. Identification of relevant sources to support class presentation. Reading more widely around topics to support lectures and prepare for exam.	Integrating data from ecology and social sciences to better understand and manage the natural environment. Assessed by exam.	Lecturer-led practical: collecting survey data during a field practical	Statistics: practical on analysis of social sciences data.	Seminar on science communication. Digital, visual: practical on using and creating videos for summatively assessed science communication in a written article or video; Oral: class presentations on wider reading, participation in seminars		Groupwork: Working in a team to prepare material for class presentations on wider reading. Data collection practical in small groups.

Stage 3	Land Use Change and Management	Progress towards PLO	Develops knowledge, understanding and awareness	Practice in finding and using sources	Develops awareness of the importance of interdisciplinarity		Develops data handling and analysis skills	Develops skills in written communication	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Independent background research and field observation on <u>patterns and process of forests and agricultural settings and in preparation of a summatively assessed Landuse Management Plan.</u>	Independent study: Independent background research and field observation on pattern and process of temperate ecosystems. Assessed by summative landuse management plan.	Bringing together a range of information from different fields (ecology, management, geographical sciences) in designing a summative Landuse Management Plan		Statistics: Analysis of collected experimental data	Written: Preparation of a summative scientific report assessment	Designing a summative Land Use Management Plan	Groupwork: Working in large groups to carry out field-based practicals. Also small team work within role play seminars
Stage 4	Research Dissertation	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding, using and discussing sources	Develops awareness of the importance of interdisciplinarity	Develops skills in designing advanced research independently	Develops skills in handling and analysing datasets using advanced approaches and software	Develops skills in communicating to a professional standard	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	<u>Advanced research on a specific topic in environmental geography</u>	Independent study and discussions with supervisor: independent research for dissertation project design and the interpretation of the findings.	Thinking across disciplines when designing and undertaking research and interpreting the findings.	Independent research design: Independently design and undertake a field or laboratory study on a specific topic in environment studies, ecology and economics	Statistics: Independently design and undertake advanced analysis of dissertation data	Written: preparation of a research publication-style dissertation and accompanying cover letter	Investigating how the environmental problems can be avoided or mitigated.	Teamwork: working with data providers and field/laboratory coworkers to collect dissertation data.

Stage 4	Business and the Environment	Progress towards PLO	Enhances knowledge and the ability to interpret the links between business and environment	Finding, using and critically evaluating sources	Experience of working across disciplines		Experience of analysing datasets	Experience of preparing a professional report, and presenting to a professional audience	Improves knowledge of approaches to environmental management in a vocational setting	Develops team-working skills in a professional setting
		By working on (and if applicable, assessed through)	Reading of academic journals and survey of mainstream media to understand environmental issues faced by business, specifically working with the Portakabin group. Ability to understand and interpret the relationship between business and the environment is summatively assessed via presentations to Portakabin and a consultancy project report.	Independent study: Independent research for preparing summatively assessed oral presentation to Portakabin and consultancy project report.	Studying the environmental issues faced by business and incorporating this into the summatively-assessed coursework		Data handling and statistics: data collection and analysis for summatively-assessed coursework	Oral: presenting to a business audience and other students the project assigned. Presentation, including preparation of Powerpoint slides, is summatively assessed. Written: preparation of a summatively-assessed consultancy project report.	Investigating solutions to the environmental issues faced by business. Appreciation of this is needed in the assessed coursework.	Groupwork: Work in groups for project report
Stage 4	Environmental Impact Assessment	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding and using sources	Develops awareness of the importance of interdisciplinarity and links between academic research and the business and management sectors		Develops skills in handling and analysing datasets	Develops skills in communicating to a professional standard	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	

		By working on (and if applicable, assessed through)	Reading academic journals and survey of mainstream media on Environmental Impact Assessments . Focuses on the tools needed to combine science-based knowledge with business drivers for environment management purposes	Independent study: Independent research for the coursework	Studying the interactions between business management, environmental management and politics		Data handling and analysis: coursework requires data collection and analysis	Oral: classroom discussions with peers and external consultants. Written: Preparation of an Environmental Impact Assessment case study report.	A variety of industry-based case studies dealing with trans-boundary issues, implications of national level regulations to business practise in different countries, and survey and monitoring plans. Interactions with external consultants.	
Stage 4	Corporate Sustainability	Progress towards PLO	Enhances knowledge and the ability to analyse and discuss the sustainability performance of an organisation.	Finding, using and critically evaluating sources. Identifying contemporary issues for research and debate.	Experience of working across and synthesising perspectives from a broad range of disciplines.	Experience of applying relevant techniques and weighing key factors in the development, implementation and monitoring of CS-related strategies/policies.	Experience of analysing datasets	Experience of oral debate in class and further to giving presentations. Preparing an essay/report and digital presentation.	Experience of developing solutions to sustainability-related problems taking account of broader environmental, social, political, ethical and economic contexts.	Develops team-working skills
		By working on (and if applicable, assessed through)	Reviewing literature and case study examples to prepare for class discussion. Developed further through the 'My Corporation' theme which tracks taught materials and provides on-going opportunities to apply learning to a student-created case study. Summatively assessed in the coursework essay/report.	Independent study, reading around the subject, analysing video materials and in-class discussions. Preparing for and presenting at a 'Future Leaders' Responsible Business Summit'. Use and critical evaluation of sources is summatively assessed in the coursework essay/report.	Studying the environmental, social and ethical issues faced by corporations and incorporating this into summatively-assessed coursework and closed book examination. Applying techniques and designing materials for the management of CS-related issues through My Corporation.	The My Corporation theme programme of exercises. In the context of summatively assessed coursework, assuming a leadership role in identifying and proposing improvements to CS practices and policies.	Collecting and analysing data using qualitative and/or quantitative methods as appropriate for the coursework report.	Oral: Seminar presentations to the class on the My Corporation exercises and to professional attendees at a student-designed and led 'Future Leaders Responsible Business Summit'. Written: Preparation of an essay/report for summative assessment. Digital presentations: My Corporation and 'Future Leaders Responsible Business Summit'.	Proposing solutions to CS-related issues discussed during lectures, workshops and the My Corporation case study exercise. Ability to propose solutions is summatively assessed in the coursework essay/report and/or through examination.	Groupwork: Working in groups during seminars and in-class discussions
Stage 4	Reconstructing Environmental Change	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding and using sources		Develops skills in undertaking data collection and handling	Develops skills in handling and analysing datasets	Develops skills in oral and written communication		Develops team-working skills

		By working on (and if applicable, assessed through)	Residential field course in the western Yorkshire Dales and Morecambe Bay and a two practical days in York. Integrating field observations with published work from a variety of locations in developing an <u>understanding of the palaeoenvironmental history of the study areas and its wider significance to Physical Geography and Quaternary Science.</u>	Independent study: Relating fieldwork results to prior published work and evaluate the wider significance of these results		Performing data collection in an unfamiliar environment, increasing independence in designing and carrying out field investigations; developing advanced skills to record, interpret and present data; practicing deductive scientific methods (hypothesis-testing)	Data analysis: Analyse, synthesising and critically evaluating a range of field data from different locations leading towards solutions of field problems with limited guidance	Oral: Giving a 20-minute PowerPoint presentation during an evening session introducing one of the field days. Written: Preparing a fieldwork report on a day's fieldwork in Roudsea Wood Nature Reserve on the shores of Morecambe Bay focussing on reconstructing Holocene sea-level changes.		Groupwork: working together with peers during fieldwork and laboratory practicals.
Stage 4	Current Research in EG	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding, using and discussing sources			Develops skills in handling and analysing datasets	Develops skills in oral and visual communication		Develops team-working skills
		By working on (and if applicable, assessed through)	Reviewing <u>recent literature on environmental geography topics</u> , in-class discussions and preparation of the scientific poster.	Independent study, in-class discussions: Reviewing the literature, in-class discussions, preparation of the scientific poster.			Handling secondary data: Synthesis of published datasets to address the hypothesis being addressed in the poster.	Written: Preparation of the press release on one of the environmental geography papers studied. Visual: preparation and presentation of a poster on one of the environmental geography topics studied.		Groupwork: Contributing to the in-class discussions.
Stage 4	IPCC Science	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding, using and discussing sources	Develops awareness of the importance of interdisciplinarity			Develops skills in oral communication		Develops team-working skills

		By working on (and if applicable, assessed through)	Studying the latest assessment report of the Intergovernmental Panel on Climate Change (IPCC). Lectures will cover the main chapters of the Working Group 1 report (The Physical Science Basis), supplemented by material from the Working Group 2 (Impacts, Adaptation and Vulnerability) and Working Group 3 reports (Mitigation of Climate Change).	Independent study and in-class discussions: seminar-style sessions on important recent journal articles that postdate the publication of the latest IPCC assessment report.	Thinking across disciplines to establish current understanding of environmental change			Oral: seminar discussions		Groupwork: seminar discussions
Stage 4	Maldives Fieldtrip	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding and using sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling	Develops skills in handling and analysing datasets	Develops skills in oral and written communication	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Lectures and field practicals on the management of coral reefs	Independent study: Reading around the subject. Learning the identifications of coral reef species	Considering the ecology, management and conservation of coral reefs and how this involves many interlinked disciplines	Daily field practicals involve individual data collection.	Statistics, data handling: Daily field practicals involving independent data analysis and interpretation	Oral: Interactions with two lecturers over the duration of the course. Written: preparation of a written report on the management of coral reefs.	Course assessment which requires the integration of information from multiple sources to develop personal conclusions about the management of reefs.	Groupwork: Working in pairs for field practicals

Stage 4	Biodiversity, Conservation and Protected Areas	Progress towards PLO	Develops knowledge, understanding and awareness	Develops skills in finding, using and discussing sources	Develops awareness of the importance of interdisciplinarity	Develops skills in data collection and handling	Develops skills in handling and analysing datasets	Develops skills in written communication	Develops awareness of environmental problems and their solutions, and provides experience in designing sustainable solutions	Develops team-working skills
		By working on (and if applicable, assessed through)	Studying <u>biodiversity, conservation issues & how protected areas may address them</u> through lectures, fieldtrip, practical and help sessions	<i>Independent study and in-class discussions:</i> Independent reading for in-class discussions and assessment preparation	Reading and coursework which requires an understanding and appreciation of both biological and socio-economic factors	Fieldtrip during which students collect new data which is part of a long term monitoring programme. The assessment will offer potentially new insights into real world conservation issues at specific locations	<i>Data handling, statistics:</i> data handling and statistical analysis of the time-series dataset the students have collected.	<i>Written:</i> skills are developed through the coursework assessment which involves preparing a piece of written work on developing solutions to conservation issues	The coursework involves developing solutions to real world conservation issues	<i>Groupwork:</i> Contributing to in-class discussions. Working in teams (3-4) to collect data during the fieldtrip