Programme Specification

MSc Sustainability (2021-22)

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

Awarding Institution	University of Southampton
Teaching Institution	University of Southampton
Mode of Study	Full-time
Duration in years	1
Accreditation details	None
Final award	Master of Science (MSc)
Name of award	MSc Sustainability
Interim Exit awards	Postgraduate Certificate
	Postgraduate Diploma
FHEQ level of final award	Level 7
UCAS code	
Programme code	8558
QAA Subject Benchmark or other external reference	Earth sciences, environmental sciences and environmental studies 2019, Master's Degree Characteristics 2016, QAA Framework for Higher Education Qualifications (FHEQ) 2008
Programme Lead	Craig Hutton

Programme Overview

Brief outline of the programme

Social, technological and environmental change is forcing an urgent global reassessment of the way we live, how we consume the planet's resources, and how we best respond to changes driven by, for example, the climate, globalisation, conflict and demographic change. Within this complex context, inputs from the social, natural and physical sciences are needed to guide and shape sustainable responses to pressing problems.

This MSc Sustainability programme is designed as a research-led, applied interdisciplinary programme that considers sustainability in both developed and developing societies, and addresses critical global challenges. These include: enabling population health and wellbeing in an increasingly stressed planet; delivering food and water to an urbanising world; understanding the present and future development impacts of patterns of settlement, land use and land cover change; understanding the inter-dependencies between people and the planet; preparing for the impact of climate change and weather extremes on people and places. Taught by research-active

world-class academic experts from multidisciplinary backgrounds, the programme equips students with applied skills as well as specialised problem-solving and critical thinking skills in tackling sustainable development issues and offers a solid foundation for developing careers in the public, private and third sectors as well as national and international agencies such as the United Nations, FAO and DFID.

The programme brings together the key components that shape sustainability; applies sustainability research as an approach to achieve the objective and goals of sustainable development; teaches the theory and application of tools, methodologies and approaches that would typically be used in working towards sustainability. The core principles underpinning this programme relate to:

- Centrality of global citizenship and environmental stewardship, social justice, ethics and wellbeing to sustainability. A sound understanding of these core themes is needed to identify, pursue and manage sustainable development issues.
- Adoption of complex, adaptive social-ecological systems as a fundamental unit of study. This provides the appropriate framework for addressing dynamic aspects of sustainability, such as: tipping points, resilience, and long-term convergence of stresses.
- Adoption of a future-facing approach that considers the consequences of today's choices on future sustainability Future-thinking requires recognition of the temporal as well as spatial impacts of choices and actions.
- Co-production of knowledge recognising the importance of participatory and integrative methods that enable complex problem solving, by working with multiple stakeholders

Unique features of the MSc include: the opportunity to work with organisations working on sustainability issues, ability to participate in fieldwork and research methods courses, interdisciplinary training, , applied modules giving opportunities to practice skills, the breadth of coverage and the wide disciplinary base.
Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

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Learning and teaching

The programme is interdisciplinary, and innovatively, taught across schools . We adopt a teaching approach that enables you to relate their learning to real-life problems and situations, where you will learn about resource management, community relationships and local and global social and economic impacts.

Experiential and interactive modes of learning will encourage you to develop and reflect on your own and others' values and experiences. Critical reflection on values and assumptions supports 'transformative learning'. You will have knowingly, or unknowingly, engaged in learning about sustainability through your previous formal education or through informal means, and you may have diverse value positions. Prior knowledge and attitudes are therefore taken into consideration in planning teaching and learning activities.
Participatory learning approaches, peer-learning and collaboration within and beyond the classroom - are promoted, allowing you to be exposed to multiple perspectives and enabling creative responses to emerge.
We will ensure that

- Divergent views can be shared and explored in a safe environment
- There are opportunities for deep and critical reflection on students' own perspectives and what has influenced their thinking and practices in this area
- Participatory learning is encouraged
- Interdisciplinary approaches, systems and holistic thinking are employed
- Teaching, learning and assessment activities are linked to real-life concerns.

A number of teaching and learning methods that are particularly effective in supporting more traditional teaching and learning methods include:

- Case studies
- Stimulus activities
- Simulation
- Experiential project work
- Problem-based learning
- Field-based learning

You will work with the Programme Leader, and your Personal Academic Tutor (PAT) to select modules to ensure that you achieve you study goals, and to develop a personalised degree programme within the framework of the MSc Sustainability.

Assessment

Assessment will involve:

- Formative tasks that enable the development of critical thinking and problem-solving
- Opportunities to apply these skills to real-world problems
- Synoptic assessments that explore the relationship between disciplines within the programme and wider issues of sustainability
- Activities that encourage effective learning in the domains of values, attitudes and behaviours.

One of the exciting aspects of interdisciplinary learning is the opportunity for you to work outside of your discipline or specialisation (for example your first degree, or area of professional expertise). To support you to ensure that you benefit from truly interdisciplinary study in the area of sustainability, the Programme Leader, and Personal Academic Tutor (PAT) will support you to select modules with teaching methods and assessment practices across the faculties that are consistent and coherent. These meetings will occur during both first and second semesters to ensure you are supported throughout your degree programme.

Special Features of the programme

The programme is unique in the field-based/applied nature of the degree programme. You will have the opportunity to be trained in the field (in research locations across the south of England as well as with the opportunity to conduct field work overseas) through dissertations, practical sessions and through the Water, People and Environment module (Cambodia Field Course). You will be trained in analytical skills to understand and evaluate sustainability challenges and futures. You will also be trained to work with stakeholders on complex problems, and in groups, to ensure that you are fully aware of the challenges of working in the sustainability field.

The programme will include occasional guest lectures from experts in particular academic topics or who are involved in the design and implementation of local, national or international sustainability policy, planning and implementation.

Other highlights of the programme include:

- An optional two-week residential developing country-based field course
- Opportunity to work directly with a leading sustainability institute, including competitive opportunities for consultancy-based dissertation, for example the GeoData Institute
- Opportunity to compete for a partially funded overseas dissertation with long standing collaborators,
- e.g. working with The Glacier Trust in Nepal, visits to leading sustainability initiatives such as Thames Barrier 2100, or in relation to: i) consultancy or, ii) geo-spatial technology, such as Ordnance Survey, National Trust
- Opportunity to receive professional RGS-IBG accredited Continuing Professional Development (CPD) training through the GeoData Institute (awarded ‘Provider status’ from the RGS for all of its current GIS courses, and accredited by the Association of Geographic Information, the professional body for the discipline). Additional (but reduced) costs apply to attend these training courses.

Please note: As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration; however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our Disclaimer to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's programme validation process which is described in the University's Quality handbook.

Educational Aims of the Programme

The aims of the programme are to: The aims of the MSc Sustainability programme are to train you in the core concepts and ideas that underpin notions of sustainability (citizenship, stewardship, equity and justice; complex social-ecological systems, alternative futures; and co-produced knowledge); to engage you in the key debates, to equip students with practical sustainability evaluation skills; to enhance knowledge and skills in research

methods associated with sustainability and their application so that you are prepared for a career working on sustainability issues.
Depending on the options selected through the MSc Sustainability, you can pursue general training in sustainability, or a specialisation in GIS and Remote Sensing, Consultancy, or Population and Development.
Irrespective of specialisation, the aim of the MSc Sustainability is to provide you with:
1.1 Critical appreciation of the key theoretical perspectives within Sustainability and their application in the analysis of specific issues concerning environmental change, global citizenship, environmental stewardship, social justice, ethics and wellbeing;
1.2 Knowledge and understanding of contemporary debates within Sustainability concerning the role of different types of data, integration across disciplines, emerging technologies, scenario development, and knowledge co-production with stakeholders
1.3 Knowledge of debates on these issues in both developed and developing countries
1.4 The ability to evaluate policies and initiatives concerning global citizenship, environmental stewardship, social justice and ethics.
1.5 Knowledge of qualitative and quantitative research methods and the ability to apply them appropriately to investigate key research questions.
1.6 Preparation for a career in the field of Sustainability and applied environmental sciences
1.7 The ability to design and conduct independent research within Sustainability using appropriate research methods. Please note that this programme aim (1.6) is not fully developed in the PG Diploma Sustainability, or the PG Certificate Sustainability.

Programme Learning Outcomes

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

Knowledge and Understanding

On successful completion of this programme you will have knowledge and understanding of:

A1. The key theoretical and conceptual approaches to the study of sustainability from a multi-disciplinary perspective

A2. Key debates within sustainability

A3. The risks associated with system complexity that can lead to unexpected and novel outcomes

A4. The determinants of sustainable development and the consequences of unsustainable behaviours

A5. The sustainability interconnections between activities of different generations, demographic groups and cultures

A6. Sustainability policies and initiatives which impact upon the lives of current and future generations

A7. The importance of both lay knowledge and scholarly research in understanding sustainability

A8. Principles of research design and strategy and the appropriate choice of research method

A9. Design and conduct of individual research topics in the field of Sustainability (this skill is not developed fully for PGCert or PGDip students as these students are not required to take the MSc Research Project module)

A10. The centrality of global citizenship and environmental stewardship, social justice, ethics and well-being to sustainability

A11. Socio-ecological systems and complexity/ complex systems and systems thinking

A12. Co-production of knowledge.

A13. Future-thinking

Teaching and Learning Methods

Traditional methods of teaching and learning (i.e. lectures, seminars, small group meetings) will be supplemented with innovative teaching methods, notably case studies, stimulus activities, simulation, experiential project work, and problem-based learning.

- Lectures, case studies and stimulus activities (A1, A2, A3, A4, A5, A6, A7);
- problem-based learning (A3, A4, A5, A6);
- computer workshops and simulations (A8),
- research methods tutorials and experiential learning (A8),
- supervised research (A8, A9).
- Field work (A1)

Teaching and Learning Methods to support core knowledge and understanding

1. Citizenship, stewardship, justice and ethics

PROBLEM-BASED LEARNING: Addressing client needs in delivery of environmental management systems.
SIMULATION: Class based and field based analysis of environmental data for environmental audits.
EXPERIENTIAL: participatory mapping.
CASE STUDIES: problem based learning scenarios, with a focus on 'wicked' problems.
STIMULUS ACTIVITIES: Group assignment on risk assessment report for a locally determined problem.

2. Complex systems thinking

PROBLEM-BASED LEARNING: addressing complex issues such as climate change SIMULATION: using systems dynamic models to understand complexity EXPERIENTIAL: seminars drawing out drivers of complex problems
CASE STUDIES: group working on single problems from multiple perspectives STIMULUS ACTIVITIES: network maps to understand complex linkages

3. Future facing science

PROBLEM-BASED LEARNING: field trips to explore sustainability problems in practice. SIMULATION: Seminars on developing scenarios of plausible futures (e.g. climate change, macro- economics, food pricing, "upstream" interventions etc.).
EXPERIENTIAL: A full day water resources planning exercise. CASE STUDIES: climate change and other 'wicked' problems.
STIMULUS ACTIVITIES: Production of Policy briefing note on future scenarios.

4. Co-production of knowledge

PROBLEM-BASED LEARNING: possibility of working with organisations such as UNESCO, Ordnance Survey, National Trust, New Forest Commission and Poole Harbour Commission (this will change from year to year).
SIMULATION: group participation in methods, sharing different knowledges.
EXPERIENTIAL: Delivery of an applied stakeholder engagement tool, e.g. focus group, seasonal calendars.
CASE STUDIES: working with communities to undertake stakeholder mapping and analysis.
STIMULUS ACTIVITIES: generation of Network maps and social network analysis.

Assessment Methods

To build post-graduate skills in the three areas of: core principles of sustainability; future-facing science; co-production of knowledge - the assessments will focus on four central aspects.

1. Integration across disciplines: this will occur through teaching approaches that draw on multiple disciplines including: System dynamics approaches that use quantitative data and qualitative relationships to integrate information about human behaviour, environment, economics, governance and decision making processes; and Risk based approaches that combine socio-economic vulnerability with the stresses associated with environmental hazards.
2. Big data and emerging technologies: this focus will ensure that students are aware of the role of emerging technologies in sustainability, and the methods to engage with and use big data in

understanding and addressing sustainability issues.
3. Scenario development: Understanding future stress is central to understanding sustainability, due to its forward looking nature. Therefore assessment will include guidance on developing scenarios of plausible futures (e.g. climate change, macro-economics, food pricing, “upstream” interventions etc.).
4. Knowledge co-production with stakeholders: engagement with stakeholders is critical to the development of this programme, hence teaching methods will cover a variety of approaches to allow for the gathering of perceptions and priorities of stakeholders, such as stakeholder analysis, network analysis. For example, the option exists for the students to undertake their Sustainability Dissertation (not available for PGCert or PGDip students), or other aspects of coursework in the form of Participatory Action Research with stakeholders to ensure their direct inclusion in the process of scientific discovery.
In addition to the standard types of assessment (essays and exams), a variety of innovative assessment methods will be used (e.g. Infographics, argument maps, corporate briefing notes, poster presentations, dissertation conference, systematic reviews, and formative feedback through peer-review), these enable assessment of the novel teaching methods, i.e. case studies, stimulus activities, simulation, experiential learning, and problem based learning.
Example assessment methods to support Knowledge and Understanding development:
Relationship to learning outcome: Citizenship, stewardship, justice and ethics Features of sustainability research: Big data and emerging technologies Assessment methods: Team work on water resources planning exercise.
Relationship to learning outcome: Complex systems thinking. Features of sustainability research: Integration across disciplines.
Assessment methods: Poster of a conceptual system dynamics model showing relationships and directions of impact for a key sustainability problem.
Relationship to learning outcome: Future-facing science Features of sustainability research: Scenario development
Assessment methods: Running seminars on developing scenarios of plausible futures (e.g. climate change, macro-economics, food pricing, “upstream” interventions etc.); Policy briefing note on future scenarios
Relationship to learning outcome: Co-production of knowledge.
Features of sustainability research: Knowledge co-production with stakeholders. Assessment methods: Report environmental management systems co-developed with businesses.
Network maps and social network analysis
- Coursework (A1, A2, A3, A4, A5, A6, A7)
- Exam (A1, A2, A3, A4, A5, A6, A7)
- Dissertation (A8, A9).

Subject Specific Intellectual and Research Skills

On successful completion of this programme you will be able to:

B1. Critically evaluate alternative theoretical frameworks and apply them to sustainability issues and debates

B2. Critically analyse real-life sustainability issues

B3. Describe complex sustainability issues in clear terms and communicate about them effectively and succinctly, both orally and in writing

B4. Engage in interdisciplinary discussion to inform thinking about sustainability

B5. Critically evaluate policy options for sustainable development, in both developed and developing countries

B6. Identify and solve problems within the field of sustainability.

B7. Synthesise key library and internet resources within the field of Sustainability

B8. Identify appropriate methods of research design and data analysis

B9. Analyse and interpret data as applied to issues concerning sustainability

Teaching and Learning Methods

- Lectures, case studies and stimulus activities (B1, B2, B3, B4, B5, B6, B7);
- Problem-based learning (B1, B2, B3, B5, B6);
- Computer workshops and simulations (B2, B5, B6),
- Research methods tutorials and experiential learning (B7, B8, B9),
- Supervised research (B8, B9).
- Library sessions (B7)

Assessment Methods

- Coursework (B1, B2, B3, B4, B5, B6, B7, B8, B9)
- Exam (B1, B2, B5)
- Dissertation (B8, B9).

Transferable and Generic Skills

On successful completion of this programme you will be able to:

C1. Think critically about new and unfamiliar ideas and concepts, drawing on evidence

C2. Contribute confidently and appropriately to group discussions/ online discussion boards/ other discussion forums

C3. Effectively communicate information through poster and oral presentations using visual aids and hand-outs

C4. Effectively communicate information through written reports

C5. Locate and use bibliographic resources for specified research purposes

C6. Manage time and resources in an individual research project (this skill is not developed fully for PGCert or PGDip students)

Teaching and Learning Methods

- Lectures, case studies and stimulus activities (C1, C2, C3, C4);
- Problem-based learning (C1, C2, C3, C4, C5, C6);
- Computer workshops and simulations (C1, C2, C3, C6),
- Research methods tutorials and experiential learning (C1, C2, C5, C6),
- Supervised research (C2, C4, C5, C6),
- Library sessions (C1, C2, C5).

Assessment Methods

- Coursework (C1, C2, C3, C4, C5, C6)
- Exam (C1, C4)
- Dissertation (C1, C4, C5, C6)

Programme Structure

The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

Part 1 (Year 1)

Part 1 (the taught programme) of the MSc Sustainability is made up of 60 ECTS/120 CATS points. Taught sessions take place over two semesters, running approximately from October to January and then from February to May each academic year. Full-time students must take 30 ECTS/60 CATS points in Semester 1 and 30 ECTS/60 CATS points in Semester 2.

Part 2 consists of the MSc Research Project worth 30 ECTS/60 CATS points, making a total of 90 ECTS/180 CATS points for the MSc overall. A special feature of the programme is the replacement of the traditional dissertation with the MSc Research Project written as a journal article (7000 word limit). This is a challenging, real-world exercise and very rewarding for students whose work is of sufficient standard to be submitted to a real journal for potential to be published. Your MSc Research Project is completed during the summer vacation and is submitted towards the middle of September for full-time students.

One of the strengths in this programme is the range of choice available, although students need to be aware that some timetabling clashes are inevitable and not all module combinations will be possible. To address this, and to ensure that students benefit from the wide choice available to them, Personal Academic Tutors (PATs) will work with each student at the start of each semester to help them select modules that develop their skills in their chosen area and support their learning. As a general guide, timetabling protects all core and compulsory modules from clashes, but not all options may be available to you. Please check carefully when you make your choices.

The structure of the programme and the modules currently offered is set out below. The list of optional modules is subject to change each academic year. A full list of modules and rules will be available to you via the Student Record Self-Service system once you enrol at the University. Information about pre and co-requisites is included in individual module profiles.

You must take 8 modules overall, with 4 in Semester 1 and 4 in Semester 2. In choosing your modules, please note that:
· You must do the 3 specified core modules
· You must choose 3 or 4 modules from Set 1
· You must choose 2 or 3 modules from Set 2
· Only four modules (i.e. 30 ECTS credits) may be taken per semester.

You will be eligible for an interim exit award if you complete part of the programme but not all of it as follows:

Postgraduate Diploma - at least 60 ECTS (minimum of 45 ECTS required at level of award)
Postgraduate Certificate - at least 30 ECTS (minimum of 20 ECTS required at level of award)

To achieve the award of the MSc (i.e. level 7), you will have shown originality in the application of knowledge and you will understand how the boundaries of knowledge are advanced through research. You will be able to deal with complex issues both systematically and creatively, and show originality in tackling and solving problems individually and as part of a team. You will have the qualities needed for employment in circumstance requiring sound judgement, personal responsibility and initiative, in complex and unpredictable professional environments.

Code	Module Title	ECTS	Type
GEOG6097	Data Collection and Research Methods for Sustainability	7.5	Core
GEOG6098	Introduction to Sustainability	7.5	Core

Part 1 (Year 1) Set 1

You must choose 3 or 4 modules from Set 1.

Code	Module Title	ECTS	Type
GEOG3023	River Basin Management and Restoration	7.5	Optional
ENVS3014	Sustainable Resource Management	7.5	Optional
ENVS6037	The Sustainability Professional (MSc)	7.5	Optional
CENV6112	Transport, Energy and the Environment	7.5	Optional

Part 1 (Year 1) Set 2

You must choose 2 or 3 modules from Set 2.

Code	Module Title	ECTS	Type
ENVS6036	Advanced GIS and Spatial Analysis	7.5	Optional
CENV6145	Climate Design of Buildings and Cities	7.5	Optional
GEOG6102	Complex Social-Ecological Systems: Past, Present and Future	7.5	Optional
GEOG6061	Core Skills in GIS	7.5	Optional
ENVS6028	Environmental Impact Assessment	7.5	Optional

ENVS6030	Environmental Law and Management	7.5	Optional
GEOG6027	Remote Sensing for Earth Observation	7.5	Optional
ENVS6006	Water Pollution	7.5	Optional
GEOG6104	Water, People and Environment: Cambodia Field Course	7.5	Optional

Part II (Year 2)

Code	Module Title	ECTS	Type
ENVS6035	MSc Research Project	30	Core

Progression Requirements

The programme follows the University's regulations for ***Progression, Determination and Classification of Results: Postgraduate Master's Programmes*** Any exemptions or variations to the University regulations, approved by AQSC are located in ***section VI of the University Calendar***.

Support for student learning

There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular Faculty or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources)
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling. Support includes daily Drop In at Highfield campus at 13.00 – 15.00 (Monday, Wednesday and Friday out of term-time) or via on-line chat on weekdays from 14.00 – 16.00. Arrangements can also be made for meetings via Skype.
- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia).
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards
- Career and Employability services, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls and in the local community, (18.00-08.00)
- A Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

The Students' Union provides

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; SUSU provides training and support for all these representatives, whose role is to represent students' views to the University.
- opportunities for extracurricular activities and volunteering
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal
- Support for student peer-to-peer groups, such as Nightline.

Within your Faculty, you will be able to access

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

Methods for evaluating the quality of teaching and learning

You will have the opportunity to have your say on the quality of the programme in the following ways:

- Completing student evaluation questionnaires for each module of the programme.
- Acting as a student representative on various committees, e.g. Staff/Student Liaison Committees, School Programmes Committee OR providing comments to your student representative to feedback on your behalf.
- Serving as a student representative on Faculty Scrutiny Groups for programme validation.
- Taking part in programme validation meetings by joining a panel of students to meet with the Faculty Scrutiny Group.

Further details on the University's quality assurance processes are given in the *Quality Handbook.*

Career Opportunities

n/a

External Examiner(s) for the programme

Name: Dr Georgina Gough - University of West England

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their Course Representative, for consideration through Staff: Student Liaison Committee in the first instance, and Student representatives on Staff: Student Liaison

Committees will have the opportunity to consider external examiners' reports as part of the University's quality assurance process.

External examiners do not have a direct role in determining results for individual students, and students wishing to discuss their own performance in assessment should contact their Personal Academic Tutor in the first instance.

Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if they take full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook.

Appendix 1:

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. In addition to this, students registered for this programme also have to pay for:

Additional Costs

Type	Details
Anything else not covered elsewhere	Geodata offers RIS-IGB accredited CPD courses which can be taken in addition to MSc modules. These courses are offered to University of Southampton PGR and PGT students at significant discount. Courses cost between £200 and £350 depending on type and length.
Approved Calculators	Candidates may use calculators in the examination room only as specified by the University and as permitted by the rubric of individual examination papers.
Clothing	(lab coats, protective clothing, hard hat, safety boots, hi-viz vest/jackets). Field course clothing: you will need to wear suitable clothing when attending field courses and field trips, e.g. waterproofs, walking boots. You can purchase these from any source.
Equipment and Materials	Standard construction/modelling materials will be provided where appropriate, unless otherwise specified in a module profile. For customisation of designs/models calling for material other than standard construction/ modelling materials, students will bear the costs of such alternatives.
Fieldwork: logistical costs	(Accommodation, insurance, travel costs, immunisation/vaccination costs). There is an optional two-week overseas residential field course module on the programme. Costs apply – please see the GEOG6104 module handbook for more information.
Optional Visits (e.g. museums, galleries)	Some modules may include additional optional visits. You will normally be expected to cover the cost of travel and admission, unless otherwise specified in the module profile.
Stationery	You will be expected to provide your own day-to-day stationary items, e.g. pens, pencils, notebooks, etc). Any specialist stationery items will be specified under the Additional Costs tab of the relevant module profile.
Textbooks	Where a module specifies core texts these should generally be available on the reserve list in the library. However due to demand, students may prefer to buy their own copies. These can be purchased from any source. Some modules suggest reading texts as optional background reading. The library may hold copies of such texts, or alternatively you may wish to purchase your own copies. Although not essential reading, you may benefit from the additional reading materials for the module.

In some cases you'll be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at www.calendar.soton.ac.uk.