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Why choose Geography at Liverpool?

Geography offers unique insights into many of the most pressing issues facing the world in the 21st century, such as globalisation, geopolitics, climate change, sustainability, health, economics, population, hazards, pollution and natural resource management. Our degrees are intellectually stimulating and will help you to develop as an independent learner with the key skills for your future career.

Benefit from an award-winning learning environment
We have invested heavily in teaching facilities, including the £23 million award-winning Central Teaching Laboratories (CTL). This state-of-the-art learning environment includes a dedicated laboratory and access to computing and flexible teaching spaces. The CTL houses much of our industry-standard equipment, providing a superb learning environment. Our Geographical Information Systems/Cartography suite houses a computing centre and is one of the few staffed map collections in the country, containing over 100,000 maps, 600 atlases and access to digital data.

Shape your degree with flexible programmes and choice of modules
Both our BA and BSc degrees in Geography offer flexibility. You can choose to specialise in physical or human geography, or to maintain a mixture throughout your degree. You can also take modules from outside Geography, and many students value the opportunity to keep up an interest in another subject area as part of their Geography degree.

RGS-accredited degree programmes
Our BA and BSc Geography programmes have been accredited by the Royal Geographical Society (with IBG). Accredited degree programmes contain a solid academic foundation in geographical knowledge and skills, and prepare graduates to address the needs of the world beyond higher education. The accreditation criteria require evidence that graduates from accredited programmes meet defined sets of learning outcomes, including subject knowledge, technical ability and transferable skills.

Study a subject with relevance to the world now
A recent graduate summarised our Geography degree as “a programme that not only teaches you about the world but makes you want to change it.” All of our academic staff are involved in research that relates to, and is informing, contemporary policy debates and challenges. This research feeds into our teaching, so studying a Geography degree at Liverpool means that you will learn about, and develop the techniques and understanding to address key contemporary political, societal and environmental concerns.
**Study in a city ideal for Geography**
Liverpool as a city has undergone significant change in recent years. Previously the European Capital of Culture, it has the fastest growing productivity of any major city in the UK outside London. Liverpool is situated alongside a fascinating and dynamic marine and coastal environment, including the world-renowned Sefton Dunes and River Mersey. Liverpool is both an exciting place to live and work, and the ideal place to study human and physical geography as the dynamic physical, social and political landscapes are evident within the city-region itself.

**Be part of a friendly and supportive community**
Geographers at the University of Liverpool are not only leaders in their fields, but according to current students are also friendly, enthusiastic and supportive. Teaching is of equal importance to research in the Department and academic staff at all levels are engaged in undergraduate teaching.

**Enhance your studies with fieldwork**
We are renowned for the unparalleled fieldwork experience we offer our undergraduates. From your first week to your final year, field classes are an integral part of your learning. In addition to making the most of Liverpool’s location we boast excellent field trips to destinations including Santa Cruz (California), Singapore, Barcelona, Iceland, Lorca (Spain), Portugal, Glasgow, Belfast, Cardiff, Edinburgh, the Lake District and mid-Wales. Field classes are not only important for learning skills and developing geographical knowledge, but also help foster a strong geographical community of students and staff. There is also the opportunity to undertake final year dissertation fieldwork abroad.

Students have, in recent years, accompanied staff on research expeditions to Iceland, Sweden and Norway and others have arranged their own dissertation research (with the support of staff) in countries including the USA, India, Thailand, Cambodia, Vietnam, Germany, and many others.
Good to know:

200
Year One undergraduates across BA and BSc Geography

95%
of students graduated with a First Class or 2:1 degree in 2016

92%
of our students find that they received sufficient advice and support with their studies (NSS 2016)

92%
of students agree staff are good at explaining things (NSS 2016)

Study abroad
As part of your Geography degree programme you have the opportunity to spend a semester studying abroad. Studying abroad has many personal and academic benefits, as well as giving you a head start in the graduate job market. Geography students can currently apply to study with one of the many worldwide partners we share links with. For more information, visit www.liverpool.ac.uk/goabroad

Year in China
The Year in China is the University of Liverpool’s exciting flagship programme enabling undergraduate students from a huge range of departments, including Geography, the opportunity to spend one year at our sister university Xi’an Jiaotong-Liverpool University (XJTLU), following XJTLU’s BA China Studies degree classes. See www.liverpool.ac.uk/yearinchina for more information.

How you learn
To help you meet the intellectual and practical challenges of studying Geography, our programmes are taught using a student centred approach, involving a range of learning experiences. These include:

- Small tutor groups (typically eight students) through all years
- High levels of field based learning within the UK and abroad
- An emphasis on active, problem-based learning (‘learning by doing’)
- Hands-on experience of cutting-edge laboratory technologies in physical geography
- Innovative GIS, statistical and qualitative research methodologies and community consultation in human geography
- Supervised independent and group project work, including (for Single Honours degrees) a final year independent research-based dissertation supervised by a dedicated expert in the field.

A number of the School’s degree programmes involve laboratory and fieldwork. The fieldwork is carried out in various locations, ranging from inner city to coastal and mountainous environments. We consider applications from prospective students with disabilities on the same basis as all other students, and reasonable adjustments will be considered to address barriers to access.

Visit our blog to find out more about what life is like studying Geography at the University of Liverpool www.livunigeog.wordpress.com
Exploring lagoons and estuaries in Mexico

Geography and Planning PhD researchers, Ben Phillips and Charlotte Lyddon visited Mexico to examine physical coastal processes with a focus on mitigating flood hazard. Read more about the project at www.liverpool.ac.uk/geography-and-planning/news/articles/postcard-lagoons-and-estuaries-in-mexico

Research sheds new light on whether we are all getting fatter

Health Geography Researchers have examined trends in BMI distribution over a 21 year period and analysed the whole data by sex and social group, with some very interesting results. The study has found that whilst BMI is rising across both sexes and within all social groups, there have been larger increases in those who already have the highest BMIs. Read more about the project at www.liverpool.ac.uk/geography-and-planning/news/articles/research-sheds-new-light-on-whether-we-are-all-getting-fatter

Research highlights

Quantifying weather and climate impacts on health in developing countries

One of our current research areas is a project entitled ‘Quantifying Weather and Climate Impacts on Health in Developing Countries’ (QWeCI), funded by the European Commission Seventh Framework programme and led by Professor Andy Morse. The project focuses on climate and disease in Senegal, Ghana and Malawi and aims to give decision makers the necessary time to deploy intervention methods to help prevent large scale spread of diseases such as Rift Valley fever and malaria. It is thought that climate change will alter global disease distributions, and although scientists have significant knowledge of the climate triggers for particular diseases, the QWeCI project brings much needed research to help understand how far into the future these events can be predicted.

The project aims to understand, at a more fundamental level, the climate drivers of the vector-borne diseases of malaria, Rift Valley fever and certain tick-borne diseases, which all have major human and livestock health and economic implications in Africa, in order to assist with their short-term management and make projections of their future likely impacts. The project is an example of how geographers at Liverpool are at the forefront of climate change research which has a significant humanitarian impact. www.liverpool.ac.uk/qweci
Geography is not just maps and rocks! Geography teaches you to think on a much larger scale, to see how each part of a scenario interacts with another and how they all link together. The assessment methods encourage you to produce a well-structured and rounded project, from being assessed on your presentation skills and group work to assessment based on your final project or through continuous assessment. This flexibility in module choices, combined with the innovative and varied assessment processes, allows students to flourish and progress to the next stage post university. I found when applying for graduate trainee schemes a lot of the skills and experience that I needed to get through the interviews and assessment centres I had obtained through my programme at Liverpool.

Tom Whelligan-Fell
Geography BA (Hons) Global Retail Human Resource Adviser, Graduate Trainee Scheme, Shell Oil
Invest in your future

Geography is a subject that bridges the social and physical sciences. Those studying Geography develop transferable knowledge and skills which open up a wide range of career opportunities. For this reason, it was listed amongst the top ten recession-proof degrees by the Daily Telegraph.

Our Geography degrees are constantly reviewed, in consultation with employers, to ensure that graduates leave with the key skills required to compete in the global workplace. This includes setting non-traditional assignments, such as writing policy briefs and bringing employers and graduates into the University to meet and advise you. The tutorial system operating in all three years is specifically designed to provide support in the development of key transferable skills and important elements of career planning (including CV and interview skills, internship applications and skills audits, among others).

This has enabled recent graduates to embark on rewarding careers with a broad range of public and private sector organisations. Some are putting their geographical knowledge to direct use working in jobs such as: environment assistant for the Environment Agency; ranger; government researcher; resource planner; and in business development. Other graduates are putting the transferable skills they have gained into practice in careers such as: accountancy; teaching and management; and a significant number join graduate training programmes in major organisations.

Find out more about our graduates here www.liverpool.ac.uk/geography-and-planning/geography-programmes/alumni

Recent employers of our graduates
- Environment Agency
- British Airways
- NatWest
- Envirolink
- British Gas
- BT
- Civil Service
- Guardian Media Group
- Regional councils
- Lancashire County Council
- HM Revenue and Customs
- Mouchel
- British Council
- PricewaterhouseCoopers
- Bruntwood
- The Research Partnership
- Severn Trent Water
- United Utilities.

Work experience opportunities

We encourage students to undertake work experience and internships during the course of their degree and the tutorial programme includes sessions which help students identify what would be useful for them. In addition, as a geography student here, you will have the option to undertake a ‘work-based dissertation’, which combines your final year independent research project with a placement in industry. Our University Careers & Employability Service will help you to arrange your placement and an academic member of staff will supervise your research.
This provides you with the opportunity to undertake an internship related to your future career goals during the summer between Year Two and Three, and use this experience to contribute to your academic studies at the same time.

Our numerous fieldwork opportunities also offer the chance to work directly with a range of stakeholders from industry, the public sector and non-governmental organisations (NGOs). Our current and past students have found these opportunities invaluable in developing work-based skills and networks to secure employment in their chosen career destinations.

A passion for learning: postgraduate studies
If you wish to continue your studies at postgraduate level, we offer a range of master’s programmes, including: MA in Contemporary Human Geography; MSc in Environment and Climate Change; MSc in Environmental Science; and MSc in Geographical Information Science. There are also opportunities for PhD study drawing on staff specialisms, and to apply for funding from a range of organisations, including the ESRC (Economic and Social Research Council) and NERC (Natural Environment Research Council).

Make yourself employable
By the time you graduate you will have developed valuable abilities such as: numeracy; literacy; laboratory skills; critical thinking; teamwork; project management; graphicacy; research design; policy analysis and many more. Geographical information systems (GIS) is an important specialist skill and an area in which we undertake world-leading research. Employers are increasingly looking for people who can use this technology, found in everything from mobile phones to state-of-the-art navigation aids. Such employers include planners and insurers, who use GIS to model flood risk and private companies, who use it to identify potential customers.

Alone side this, the core research skills in human geography, including surveying, interviewing and innovative community liaison techniques, stand students in good stead for a range of employment destinations. Likewise, the state-of-the-art laboratory techniques which our physical geographers learn, make them attractive to employers in the science and technology industries as well as environmental regulators and consultants.

LivWiSE
LivWiSE is a society for men and women to celebrate and promote women in science, technology, engineering, maths and medicine (STEM). They regularly host events and networking opportunities which are open to everyone interested in STEM. Find out more at www.liverpool.ac.uk/livwise, www.facebook.com/liverpoolWISE or twitter @LivUniWiSE

Geography is a subject that is relevant to everyday life. The way the world functions on a physical level alongside how we as humans have contributed to its development is fascinating, so the really good thing about Geography at Liverpool is that we aren’t limited to either human or physical geography and we are given the choice to interchange modules.

Isabel Saklawska
Geography BA (Hons)
# Degrees

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<thead>
<tr>
<th>Degree</th>
<th>Code</th>
<th>Duration</th>
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<tr>
<td>Geography BA (Hons)</td>
<td>L700</td>
<td>3 years</td>
<td>09</td>
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<tr>
<td>Geography BSc (Hons)</td>
<td>F800</td>
<td>3 years</td>
<td>11</td>
</tr>
<tr>
<td>Geography and Planning BA (Hons)</td>
<td>L7K4</td>
<td>3 years</td>
<td>12</td>
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<tr>
<td>Geography BSc (Hons) (4-year route including a Foundation Year at Carmel College)</td>
<td>F808</td>
<td>4 (1+3) years</td>
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Degrees offered with other departments

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<th>Degree</th>
<th>Code</th>
<th>Duration</th>
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</thead>
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<tr>
<td>Environmental Science BSc (Hons)</td>
<td>F750</td>
<td>3 years</td>
<td>14</td>
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<tr>
<td>Geography and Oceanography BSc (Hons)</td>
<td>FF78</td>
<td>3 years</td>
<td>15</td>
</tr>
<tr>
<td>Geology and Physical Geography BSc (Hons)</td>
<td>F6F8</td>
<td>3 years</td>
<td>15</td>
</tr>
<tr>
<td>Geology and Physical Geography MESci (Hons)</td>
<td>FF68</td>
<td>4 years</td>
<td>15</td>
</tr>
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.Foundation programmes have flexible entry requirements.  
Contact E: s.hollywood@liverpool.ac.uk for details.

See [www.liverpool.ac.uk/study/undergraduate/courses](http://www.liverpool.ac.uk/study/undergraduate/courses) for current entry requirements.
Geography BA (Hons)
UCAS code: L700
Programme length: 3 years

Globalisation, geopolitics, population, and sustainability are amongst the largest challenges confronting society in the 21st century. Geography enables you to understand these issues and the ways in which they shape the world. Our degree programmes help you develop expert knowledge and skills to interrogate the range of different approaches to, and perspectives on, these issues, as well as the ability to understand how they interact.

Programme in detail
Students on the BA programme often choose more human geography oriented modules, and the core modules for this degree are focused more in this area, but you have the option to also take physical geography modules, and maintaining a balance between the two areas of geography is an option many of our students pursue. You can also take up to two 15 credit modules per year from other subjects so you can maintain an interest in another discipline as part of your BA Geography degree. We will guide you in your module choice to ensure that you choose modules which complement each other and follow a pathway which will help you to gain skills and knowledge relevant for your future career.

Year by year
In order to give a strong foundation to your degree all students take core modules in Year One which introduce you to the breadth of the subject, and the key ideas which inform the rest of the course. Core modules include:

- Study skills and GIS
- Human geography through Merseyside
- New horizons in human geography
- Research frontiers in human geography
- Living with environmental change

In addition, you can choose other optional modules from within human and physical geography, or from other disciplines including sociology, planning, politics, history, modern languages, management, psychology, archaeology, Irish studies, oceanography, earth sciences and life sciences, amongst many others.

In Year Two, skills development is a central part of the course, with core modules in research skills, statistics for social scientists, principles and theory in geography and a field class. You can then choose additional modules from a range of human geography specialisms including: Population and societies; Rural geographies; Social and cultural geographies; GIS and modelling; and Political economies of globalisation. You also have the flexibility to choose physical geography modules along with options from outside the discipline.

In Year Three, you will complete an independent dissertation, which brings together the skills and techniques learnt in the degree to produce a piece of academic research. Amongst several specialist human geography modules at Year Three (including: Geographies of resistance; Geographic data science; Poland: political, social and cultural geographies since 1939 and Post-colonial geographies) there are opportunities for overseas field study in destinations such as Barcelona, Santa Cruz (California) and Singapore.

Key modules
Year One
Core modules
- Human geography through Merseyside
- Living with environmental change
- New horizons in human geography
- Research frontiers in human geography
- Study skills and GIS (Geographical Information Systems).

Selected optional modules
Choose three of the following:
- Contemporary town planning
- Ecology and conservation
- European politics I
- European politics II
- Experiments in physical geography I
- Foundations in international politics
- Social change and social policy in contemporary society I
- Social change and social policy in contemporary society II: changing inequalities
- Theory and lab experiments in earth surface processes
- Town and country planning: an introduction
- Urban and environmental economics.

Continued over...
Year Two
Core modules
- Field class (Edinburgh, Belfast, Glasgow or Cardiff)
- Principles and theory in geography
- Research skills
- Statistics for social scientists.

Selected optional modules
Choose three of the following:
- An introduction to environmental history
- Catchment hydrology
- Changing environments
- Cities and regions
- Climatology
- Comparing welfare states
- Deviance, youth and culture
- Environmental sustainability
- Geomorphology: ice, sea and air
- GIS for human geography
- Political economies of globalisation
- Population and societies
- Rural geographies
- Social and cultural geographies
- Soils, slopes and the environment
- Strategic plan making
- Urban morphology and place making
- Urban sociology.

Year Three
Core modules
- Dissertation or work based dissertation.

Selected optional modules
One optional field class module:
- Toronto, Barcelona or Santa Cruz.

Choose six of the following (or four if taking the optional field class module):
- Climate change: a critical review
- Coastal environments: spatial and temporal change
- Embodied and everyday geographies
- Fluvial environments
- Gender, the body and identity
- Geographic data science
- Geographies of Poland
- Geographies of resistance
- Human-environment interactions
- Ireland: political, social and cultural geographies
- Issues in geography
- Maritime geographies
- Natural hazards and society
- Peace activism in a dangerous world
- Politics of the environment
- Postcolonial geographies
- Race, community and identity
- Social and spatial inequalities
- Social justice
- Teaching geography.

See pages 16-25 for module descriptions.
**Geography BSc (Hons)**
**UCAS code: F800**
**Programme length: 3 years**

Our BSc degree addresses important questions about whether the planet’s natural resources are able to sustain an increasing population, how physical earth systems respond to human activity and changing climate, how we manage resources, and how we live with environmental change. If you are interested in environmental issues and like the idea of addressing problems on global and local scales, then this is the programme for you.

**Programme in detail**
Many people who take the Geography BSc (Hons) programme choose the physical geography modules, which are more scientifically based, but the full range of human geography modules is also open to you and the flexibility of the degree allows you to shape your own programme of study. This means that you can either specialise in physical geography or study both physical and human geography as part of a BSc degree. You can also take up to two 15 credit modules per year from other subjects so you can maintain an interest in another discipline as part of your BSc Geography degree. We will guide you in your module choice to ensure that you choose modules which complement each other and follow a pathway which will help you to gain skills and knowledge relevant for your future career.

**Year by year**
In order to give a strong foundation to your degree, all students take core modules in Year One which introduce you to the breadth of the subject, and to give you a grounding in the key concepts and skills which are integral to the rest of the course. These include: **Experiments in physical geography** (which won an award for innovative teaching in 2013); **Changes in earth surface processes** (which includes five/six days fieldwork); and **Living with environmental change**.

You then get a choice of optional modules from within physical or human geography, or from other disciplines including geology, oceanography, ecology, earth sciences, life sciences, modern languages, sociology, psychology, and planning amongst many others.

In Year Two skills development is a central part of the course, with core modules in: **Research skills; Principles and theory in geography**, and a week-long field class to Lorca, Spain. You can then choose additional modules from a range of physical geography specialisms, including: **Climatology; Catchment hydrology; Geomorphology: ice, sea and air; and Soils, slopes and the environment**; along with human geography modules and those from other disciplines.

In Year Three, you will complete a dissertation, which brings together the skills and techniques learnt in the degree to produce an independent piece of academic research. Specialist modules at Year Three include: **Natural hazards and society; Coastal environments; Fluvial environments; and Human-environmental interactions**. There are also opportunities for overseas field study in destinations such as Almeria (Spain) and Santa Cruz (California).

**Key modules**

**Year One**
**Core modules**
- Changes in earth surface processes
- Experiments in physical geography I
- Experiments in physical geography II
- Living with environmental change
- Study skills and GIS.

**Selected optional modules**
Choose three of the following:
- Climate, atmosphere and oceans
- Ecology and conservation
- Environmental chemistry
- Human geography through Merseyside
- Introduction to marine biochemistry
- Introduction to sedimentary rocks and fossils
- Lab and field techniques for ecologists
- Marine biology: life in the seas and ocean
- Marine ecosystems: diversity, processes and threats
- Mathematics and physics for environmental scientists
- Minerals, magmas and volcanoes
- New horizons in human geography
- Ocean chemistry and life
- Plate tectonics
- Research frontiers in human geography.

Continued over...
Year Two
Core modules
- European field class: Lorca
- Principles and theory in geography
- Research skills (geography and environmental science).

Selected optional modules
Choose five of the following:
- An introduction to environmental history
- Catchment hydrology
- Changing environments
- Cities and regions
- Climatology
- Deep earth mineralisation systems
- Dynamic stratigraphy
- Environmental sustainability
- Geomorphology: ice, sea and air
- GIS for human geography
- Key skills for ocean scientists
- Magmatism and volcanic hazards
- Marine ecophysiology: ecology and exploitation
- Marine pollution
- Oceanography of estuaries and shelf seas
- Palaeobiology and evolution
- Political economies of globalisation
- Population and societies
- Rural geographies
- Sedimentary processes
- Social and cultural geographies
- Soils, slopes and the environment
- Statistics for social scientists.

Year Three
Core modules
- Dissertation or work based dissertation.

Selected optional modules
One optional field class module:
- Portugal, Santa Cruz (California) or Iceland.

Choose six of the following (or four if taking the optional field class module):
- Climate change: a critical review
- Coastal environments: spatial and temporal change
- Embodied and everyday geographies
- Evolution, oceans and climate
- Fluvial environments
- Geographic data science
- Geographies of resistance
- Global carbon cycle
- Human-environment interactions
- Ireland: political, social and cultural geographies
- Issues in geography
- Marine ecology, theory and applications
- Maritime geographies
- Natural hazards and society
- Ocean dynamics
- Postcolonial geographies
- Science communication
- Surviving the marine environment: adaptation, behaviour and conservation
- Teaching geography.

See pages 16-25 for module descriptions.

Geography and Planning BA (Hons)
UCAS code: L7K4
Programme length: 3 years

Students gain an in-depth understanding of the practical and theoretical aspects of Geography and planning. Consideration is given to the ways that rural and urban areas reconcile conflicting interest and adapt to economic, social and environmental change. An interdisciplinary approach to study provides learning opportunities that draw upon the expertise of academics in both planning and geography as well as sociology and architecture.
Programme in detail
Our combined Geography and Planning BA programme is a dual honours degree which draws equally from both disciplines – with some flexibility to enable the inclusion of optional sociology modules.

Year by year
Years One and Two of study introduce planning issues and the circumstances in which they arise, as well as phenomena such as globalisation, population change and sustainability. You will gain a broad overview of how planning can contribute to overcoming contemporary planning problems and an understanding of core geographic theories and skills. You will acquire oral, written and visual communication skills and engage in group-based problem solving and practical work, gaining skills that are readily transferable to the workplace. Residential field visits are an integral part of modules in both Years One and Two.

In Year Three you will have the flexibility to choose topics which interest you from a wide range of modules, maintaining the equal spread between geography and planning. You will also complete a dissertation on a topic of your choice.

Key modules

Year One
Core modules
- Contemporary town planning
- Living with environmental change
- New horizons in human geography
- Research frontiers in human geography
- Town and country planning: an introduction
- Understanding place
- Urban and environmental economics.

Selected optional modules
- Ecology and conservation
- Human geography through Merseyside
- Neighbourhood planning
- Social change and social policy in contemporary society.

Year Two
Core modules
- Field class (various locations)
- Principles and theory in geography
- Statistics for social scientists
- Strategic plan making
- Urban morphology and place making.

Selected optional modules
- Cities and regions
- Environmental sustainability
- GIS for planners
- Political economies or globalisation
- Social and cultural geographies.

Year Three
Core modules
- Dissertation.

Selected optional modules
- Climate change – a critical review
- Environmental assessment (EIA and SEA)
- Field class (various locations)
- Geographic Information Systems
- Green infrastructure
- International planning studies
- Planning and property development
- Planning law and governance
- Politics of the environment
- Post-colonial geographies
- Understanding social exclusion
- Urban and regional regeneration
- Urban design and regeneration project.

See pages 16-25 for module descriptions.
Geography BSc (Hons) (4-year route including a Foundation Year at Carmel College)
UCAS code: F808
Programme length: 4 (1+3) years

Interested in studying for a BSc (Hons) Geography degree, but feel that you lack the appropriate science background or have a non-standard academic background? Then here is a programme that's been designed for you. Your Foundation Year is spent at Carmel College, after which studies transfer to the main University site. The College offers small class sizes and high standards of academic achievement that are moderated by University staff. For more information contact E: degree@carmel.ac.uk

Programme in detail
You will gain a solid grounding in a range of science subjects including geography and mathematics and will have a choice of chemistry, physics, information technology or biology modules.

On completing the Foundation Year, you will then choose modules from the Geography BSc (Hons) programme and be based at the main University campus with the option to transfer onto the F6F8, FF78 or F800 programmes.

Year by year
Your first year (Year Zero) is based at Carmel College, St Helens, about nine miles from the main University campus. The programme, which is moderated by University staff, comprises introductory modules in geography, mathematics and one module chosen from chemistry, physics, information technology and biology.

In Years Two, Three and Four you follow your chosen modules from the BSc Geography list on the main University campus.

For up-to-date entry requirements and full module details see www.liverpool.ac.uk/study/undergraduate/courses

Degrees offered with other departments

Environmental Science BSc (Hons)
UCAS code: F750
Programme length: 3 years

Our Environmental Science degree provides a wide breadth of study opportunities from across the School of Environmental Sciences. Our degree is designed to give you an understanding of both natural and human induced environmental problems. All of our modules centre on real world issues and application, such as food security, climate change, energy security, pollution and natural hazards.

In addition to bespoke environmental science classes, our degree allows you to choose from a range of modules in biology, ecology, physical geography, and earth climate and ocean sciences, so that you can shape your degree to suit your particular areas of interest and career pathway.

Focusing on applied skills that are relevant to careers in environmental science, you will gain expertise in monitoring, modelling and managing the environment.

From your first week to your final year, field classes and laboratory practicals are an integral part of your learning, and provide a firm grounding in the latest techniques and technologies in environmental science. You will learn through a combination of individual and group work, including practicals in our purpose built (£23 million) Central Teaching Laboratories.

In addition to making the most of Liverpool’s coastal location, you will have the opportunity to undertake fieldwork in locations such as Snowdonia, Pembrokeshire, Peak District, Portugal, Iceland and California.

For more information download the Environmental Science brochure from www.liverpool.ac.uk/study/undergraduate/courses/publications
Geography and Oceanography BSc (Hons)
UCAS code: FF78
Programme length: 3 years

The way that the Earth behaves as a system results from interactions between the land, the oceans and the atmosphere. Complex issues such as climate change, sea level rise and environmental pollution can only be fully understood if all the different facets of the Earth’s behaviour are considered. While the ocean sciences deal with present day and future climate change scenarios, the link to physical geography provides an understanding of changes in climate over the last several thousand years to provide context for recent climate change. This was the first UK university programme to combine land, ocean and climate studies in an integrated programme of study.

For more information download the Earth, Ocean and Ecological Sciences brochure from www.liverpool.ac.uk/study/undergraduate/courses/publications

Geology and Physical Geography BSc (Hons)
UCAS code: F6F8
Programme length: 3 years

The Earth surface system is dynamic and diverse, with changes driven by the interplay of physical, chemical, geological and biological processes in a wide range of environments. Drawing on the complementary expertise of staff in geology and physical geography, this integrated degree programme provides a clear view of the controlling processes that link landscape evolution with environmental change and natural events that impact human activity. Fieldwork in Years Two and Three at Liverpool is designed specifically for this degree programme integrating geology and geomorphology.

Students have academic tutors from both disciplines in Years One and Two. Graduates from F6F8 (BSc) either gain employment directly or proceed to vocational MSc (such as Recent Environmental Change, Engineering Geology, Hydrogeology) or PhD degree programmes.

The first two years of FF68 (MESci) are shared with the BSc programme. The final two years provide a wider choice of taught modules and a comprehensive fieldwork programme. In addition, you have the opportunity to design and undertake a major individual research project that will provide you with skills in analysis, synthesis, problem solving, and reporting. The unique range of skills that MESci Geology and Physical Geography students develop make them attractive to employers in the geotechnical and resource exploration industries, as well as the environmental monitoring, surveying and planning sectors.

This degree is accredited by the Geological Society of London, satisfying the requirements of Fellowship and Chartered Geologist status.

For more information download the Earth, Ocean and Ecological Sciences brochure from www.liverpool.ac.uk/study/undergraduate/courses/publications

What I enjoyed most about studying Geography at Liverpool was the diversity of the course. Few other subjects present the opportunity to address such a wide-range of key challenges; from climate and energy to poverty and disease. You are encouraged to think analytically and critically, to be creative, and to voice your opinion.

Robert Dietz
Geography BSc (Hons) 2015,
MEICA Officer, Environment Agency
# Core and selected optional modules overview

## Year One

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changes in earth surface processes</td>
<td>2</td>
<td>15</td>
<td>This module involves lecture and field-based problem-solving to explore the fundamental physical and chemical processes and landforms across glacial, slope, coastal, fluvial and lake environments. The module culminates with a six day field class in the English Lake District.</td>
</tr>
<tr>
<td>Climate, atmosphere and oceans</td>
<td>1</td>
<td>15</td>
<td>Gives an introduction to the climate system, the atmosphere and oceans. It addresses how the climate system varies, how climate is controlled by radiative forcing, and how the atmosphere and oceans are structured and circulate.</td>
</tr>
<tr>
<td>Contemporary town planning</td>
<td>2</td>
<td>15</td>
<td>Extends your understanding of the form and operation of planning systems at the local level. It provides practical experience of data gathering, analysis and policy formulation for planning purposes, and develops your skills in group working, written, visual and oral presentation.</td>
</tr>
<tr>
<td>Ecology and conservation</td>
<td>2</td>
<td>15</td>
<td>Introduces you to the complex and multifaceted nature of environmental issues and ecological science, particularly stressing the interrelationships between biophysical and human dimensions.</td>
</tr>
<tr>
<td>Environmental chemistry</td>
<td>2</td>
<td>15</td>
<td>Students obtain the basic chemistry to understand basic chemical reactions and processes that are fundamental to the evolution of our planet generally.</td>
</tr>
<tr>
<td>European politics I</td>
<td>1</td>
<td>15</td>
<td>Provides an introduction to European politics by focusing on key contemporary issues, including the key challenges encountered when attempting to define and conceptualise Europe, the key debates around the status of democracy and crisis of the nation-state in the European context and themes encountered in the politics of Europe, such as integration, international migration and security.</td>
</tr>
<tr>
<td>European politics II</td>
<td>1</td>
<td>15</td>
<td>Introduces the distinctive characteristics of political institutions in selected European states, the main features of political development in a range of European countries, and provides a basis for comparison between different European political systems.</td>
</tr>
<tr>
<td>Experiments in physical geography I</td>
<td>1</td>
<td>15</td>
<td>Provides you with a practical introduction to environmental processes, experimental design, reliable measurement, and data analysis. You will undertake 10 different experiments, each lasting a full day, using industry standard equipment in the University's Central Teaching Laboratory.</td>
</tr>
<tr>
<td>Experiments in physical geography II</td>
<td>2</td>
<td>15</td>
<td>Developing on Experiments in physical geography I this module is designed to provide you with a practical introduction to environmental processes, experimental design, reliable measurement, and data analysis. The practical exercises are linked to geography modules (in both Years One and Two) and complements themes covered within these.</td>
</tr>
<tr>
<td>Foundations in international politics</td>
<td>2</td>
<td>15</td>
<td>Provides introductory foundations to the study of international politics by introducing the main theories and approaches.</td>
</tr>
</tbody>
</table>

Please note: modules are provided for information only and may change. Timetabling restrictions may apply.
<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human geography through Merseyside</td>
<td>2</td>
<td>15</td>
<td>Introduces you to key areas of human geography inquiry practised at the University of Liverpool through engagement in intensive day-long practical exercises focused on the city itself.</td>
</tr>
<tr>
<td>Introduction to marine biochemistry</td>
<td>2</td>
<td>15</td>
<td>Introduces you to the marine chemistry of the major and trace elements and explores the dynamic relationship between the chemical ocean environment and biological processes.</td>
</tr>
<tr>
<td>Introduction to sedimentary rocks and fossils</td>
<td>1</td>
<td>15</td>
<td>Provides an introduction to the study of sediments and sedimentary rocks and to introduce the main groups of common fossil.</td>
</tr>
<tr>
<td>Lab and field techniques for ecologists</td>
<td>2</td>
<td>15</td>
<td>Provides training in a range of ecological skills in field work which have wide application to many fields of environmental science including modern biology, ecology and physical geography. Techniques taught include identification of plants and animals, communities and measurement of selected ecological processes.</td>
</tr>
<tr>
<td>Living with environmental change</td>
<td>1</td>
<td>15</td>
<td>Introduces you to the ‘Grand Challenges’ facing society and what is being done to address them. Living with environmental change is a key interdisciplinary research theme currently being addressed worldwide, from tackling climate change and carbon emissions to promoting sustainable resource use and energy efficiency. This module gives you an introduction to these key areas of research.</td>
</tr>
<tr>
<td>Marine biology: life in the seas and ocean</td>
<td>1</td>
<td>15</td>
<td>Explores the main groups of organisms found in the marine environment.</td>
</tr>
<tr>
<td>Marine ecosystems: diversity, processes and threats</td>
<td>2</td>
<td>15</td>
<td>You’ll learn about the diversity of ecosystems in the marine environment and the various threats they face.</td>
</tr>
<tr>
<td>Mathematics and physics for environmental scientists</td>
<td>1</td>
<td>15</td>
<td>Provides you with an understanding of the basic maths and physics relevant to processes in the atmosphere, ocean and solid earth. It is particularly aimed at students without A level maths or equivalent.</td>
</tr>
<tr>
<td>Minerals, magmas and volcanoes</td>
<td>1</td>
<td>15</td>
<td>Examines the physical processes of the main types of volcanic activity and the associated hazards. It also introduces the main rock forming minerals and examines volcanic hazards awareness and principles of risk mitigation.</td>
</tr>
<tr>
<td>Neighbourhood planning</td>
<td>2</td>
<td>15</td>
<td>Introduces you to planning nuances of planning at a local scale. Through an examination of socio-economic needs the modules explores how local communities function within wider urban areas and discusses a range of techniques used to engage with such communities. The module provides you with opportunities to use these skills to participate in small scale neighbourhood planning exercises and projects.</td>
</tr>
<tr>
<td>New horizons in human geography</td>
<td>1</td>
<td>15</td>
<td>Introduces you to new aspects of geographical thought unlikely to have been encountered at A level (or equivalent). It raises awareness of the complexity of issues such as poverty, development and politics and helps you to understand what a geographical approach to these issues entails.</td>
</tr>
<tr>
<td>Ocean chemistry and life</td>
<td>2</td>
<td>15</td>
<td>Introduces you to fundamental chemical and biological processes that control the concentration and distribution of key elements (eg carbon and nitrogen) and gases (eg oxygen and carbon dioxide) in the ocean, and their influence on life in the ocean. Practical classes compliment lectures by training you in analysis of elements and gases in the ocean.</td>
</tr>
</tbody>
</table>

Please note: modules may not be available across all programmes, please check programme specific module lists on pages 08-15.
### Core and selected optional modules overview

#### Year One (continued)

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate tectonics</td>
<td>1</td>
<td>15</td>
<td>Introduces you to the structure and composition of the Earth, the earth’s gravitational and magnetic fields, and dynamics within the deep earth.</td>
</tr>
<tr>
<td>Research frontiers in human geography</td>
<td>2</td>
<td>15</td>
<td>Provides an introduction to cutting edge debates within contemporary human geography, highlighting the ways which the discipline contributes to interdisciplinary knowledge production across the humanities and social sciences.</td>
</tr>
<tr>
<td>Social change and social policy in contemporary society I</td>
<td>1</td>
<td>15</td>
<td>Explores processes of social continuity and change over time in various areas of social life from a social science perspective.</td>
</tr>
<tr>
<td>Social change and social policy in contemporary society II: changing inequalities</td>
<td>2</td>
<td>15</td>
<td>Provides you with an appreciation of the main changes that have taken place in British society since 1945, with a particular emphasis on “race” and ethnicity, gender and social class.</td>
</tr>
<tr>
<td>Study skills and GIS (Geographical Information Systems)</td>
<td>1 and 2</td>
<td>15</td>
<td>Introduces you to the skills they will need to study Geography at degree level. Delivered through small group tutorials, you will develop key academic skills such as how to produce effective essays, oral presentations and posters. This module also helps you start to develop skills such as CV writing and internship applications, which are important for future employment beyond your studies.</td>
</tr>
<tr>
<td>Theory and lab experiments in Earth surface processes</td>
<td>1</td>
<td>15</td>
<td>The module uses a lecture and laboratory-based problem-solving approach to explore some of the fundamental physical and chemical processes underlying physical geography. It provides a foundation for environmental and physical geography modules in Years Two and Three. It also aims to provide training in careful observation, appropriate handling of liquid and solid samples, and correct use of analytical instruments. Throughout there is emphasis on quality control via replication and reference materials, and appropriate use of descriptive and inferential statistics.</td>
</tr>
<tr>
<td>Town and country planning: an introduction</td>
<td>1</td>
<td>15</td>
<td>Provides an introduction to the history, theory and practice of town and country planning in Britain.</td>
</tr>
<tr>
<td>Understanding place</td>
<td>1 and 2</td>
<td>15</td>
<td>Develops the understanding of how places function and will have applied this understanding to Liverpool and other cities.</td>
</tr>
<tr>
<td>Urban and environmental economics</td>
<td>1</td>
<td>15</td>
<td>Provides an introduction of some key micro and macroeconomic concepts and principles relevant to urban and environmental policies. It introduces basic spatial analytical techniques and methods used to analyse economic and demographic trends and issues.</td>
</tr>
</tbody>
</table>

Please note: modules may not be available across all programmes, please check programme specific module lists on pages 08-15.
### Year Two

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>An introduction to environmental history</td>
<td>1</td>
<td>15</td>
<td>Introduces you to the rapidly developing field of environmental history, and forms a basis for more advanced environmental courses in Year Three.</td>
</tr>
<tr>
<td>Catchment hydrology</td>
<td>1</td>
<td>15</td>
<td>Investigates the main hydrological processes operating in drainage catchments in terms of their measurement, operation and controlling factors. The module provides ‘hands-on’ experience of observing hydrology and of modelling hydrological systems, with an emphasis on applied learning.</td>
</tr>
<tr>
<td>Changing environments</td>
<td>1</td>
<td>15</td>
<td>In this module, you will learn how climate and human activities have shaped our landscape, from micro- to macro-scale. You will learn how we can reconstruct climatic conditions, landscape and vegetation from the past.</td>
</tr>
<tr>
<td>Cities and regions</td>
<td>1</td>
<td>15</td>
<td>This module equips you with an understanding of the nature of urban and regional change and the policy issues that these changes present.</td>
</tr>
<tr>
<td>Climatology</td>
<td>2</td>
<td>15</td>
<td>Explores meteorological processes and analysis of climate records. It covers topics such as hurricanes, drought, flooding, monsoonal systems, and the construction and utilisation of climate records.</td>
</tr>
<tr>
<td>Comparing welfare states</td>
<td>2</td>
<td>15</td>
<td>Examines Esping-Andersen’s typology of welfare regimes, “the three worlds of welfare capitalism”. It compares and contrasts welfare settlements in liberal, conservative and social democratic regimes with reference to the USA, Germany and Sweden.</td>
</tr>
<tr>
<td>Deep earth mineralisation systems</td>
<td>2</td>
<td>15</td>
<td>Examines the igneous processes that form layered mafic igneous complexes and associated nickel and platinum group element ore deposits.</td>
</tr>
<tr>
<td>Deviance, youth and culture</td>
<td>1</td>
<td>15</td>
<td>Examines historical and sociological perspectives on deviancy, the cultural production of deviancy and its political effects.</td>
</tr>
<tr>
<td>Dynamic stratigraphy</td>
<td>2</td>
<td>15</td>
<td>Examines controls on the stratigraphic organisation of sedimentary strata, and develops an understanding of how a time framework can be established in such strata.</td>
</tr>
<tr>
<td>Environmental sustainability</td>
<td>1</td>
<td>15</td>
<td>Introduces you to current thinking in relation to sustainable development and locates environmental sustainability within this broader framework of ideas.</td>
</tr>
<tr>
<td>European field class: Lorca</td>
<td>1</td>
<td>15</td>
<td>This field course gives you experience of a range of aspects of physical geography in a contrasting environment to that of the UK. It examines all aspects of the physical environment – climate and meteorology, geomorphology, hydrology, and vegetation.</td>
</tr>
<tr>
<td>Field class (Edinburgh Glasgow, Belfast or Cardiff)</td>
<td>2</td>
<td>15</td>
<td>This module provides, through a week long residential trip, practical experience and training in designing, executing, analysing, writing-up and presenting a field research project.</td>
</tr>
</tbody>
</table>

Please note: modules may not be available across all programmes, please check programme specific module lists on pages 08-15.
Core and selected optional modules overview

**Year Two** (continued)

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field class (various locations)</strong></td>
<td>2</td>
<td>15</td>
<td>Provides an introduction and understanding of the dynamics of change in the countryside and provides an examination of the role of key actors and agencies. The module will examine and critically evaluate policy initiatives for both the human and natural environments and interrelationships and tensions between the two.</td>
</tr>
<tr>
<td><strong>Geomorphology: ice, sea and air</strong></td>
<td>2</td>
<td>15</td>
<td>Examines fundamental processes operating in glacial, coastal and aeolian environments and by learning how modern landscapes are described, analysed and interpreted.</td>
</tr>
<tr>
<td><strong>GIS for human geography</strong></td>
<td>1</td>
<td>15</td>
<td>In this module, you will learn how to use GIS (Geographical Information Systems) to create a spatial database. This will involve understanding the basics of how a GIS works, learning how to create and input a range of data types, and applying these techniques to solve real world problems.</td>
</tr>
<tr>
<td><strong>GIS for planners</strong></td>
<td>2</td>
<td>15</td>
<td>Provides core competence in basic GIS with a focus on applications of these techniques in the applied context of planning.</td>
</tr>
<tr>
<td><strong>Key skills for ocean scientists</strong></td>
<td>1</td>
<td>15</td>
<td>Develops skills in environmental data analysis and develops a critical approach to the results of data analysis.</td>
</tr>
<tr>
<td><strong>Magmatism and volcanic hazards</strong></td>
<td>2</td>
<td>15</td>
<td>Examines fundamentally contrasting magmatic systems and considers in each case the nature and origin of the magmatic activity with follow-up intensive case studies of actual and putative associated hazards.</td>
</tr>
<tr>
<td><strong>Marine ecophysiology: ecology and exploitation</strong></td>
<td>2</td>
<td>15</td>
<td>Provides essential background knowledge in marine ecology, ecophysiology and resource exploitation.</td>
</tr>
<tr>
<td><strong>Marine pollution</strong></td>
<td>1</td>
<td>15</td>
<td>Introduces you to the main anthropogenic stressors, their effects and importance on the marine system, as well as developing an awareness of the current problems. You will be trained in literature search and reading of scientific papers whilst enhancing your writing and communication skills.</td>
</tr>
<tr>
<td><strong>Oceanography of estuaries and and shelf seas</strong></td>
<td>2</td>
<td>15</td>
<td>This module covers the oceanographic concepts needed to understand how coastal seas work, reaching from within estuaries, out across the shelf sea and to the shelf edge. Topics covered include circulation and transports in estuaries, estuaries as sources of nutrients to the ocean, waves and tides in coastal seas, the links between the physics, the plankton and important fisheries, and the reasons for coastal seas being so different to the open ocean.</td>
</tr>
<tr>
<td><strong>Palaeobiology and evolution</strong></td>
<td>1</td>
<td>15</td>
<td>Introduces evolutionary theory and how fossils contribute to the study of evolution.</td>
</tr>
</tbody>
</table>

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<th>Module title</th>
<th>Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Political economies of globalisation</td>
<td>2</td>
<td>15</td>
<td>Introduces you to the study of globalisation. It is of interest to those who wish to learn how capitalism has transformed the world, and what challenges this transformation entails for the functioning of national and local economies, states and societies. Specifically, the module examines the changes globalisation has wrought in political life and how globalisation has been contested.</td>
</tr>
<tr>
<td>Population and societies</td>
<td>1</td>
<td>15</td>
<td>Provides a general introduction to the field of population geography. A basic demographic understanding of population change is placed within a spatial framework, allowing exploration of the nature and causes of national, societal and cultural differences in these changes.</td>
</tr>
<tr>
<td>Principles and theory in geography</td>
<td>1</td>
<td>15</td>
<td>Gives an overview of the intellectual history of geography, highlighting theoretical tendencies and identifying key contributors to the discipline.</td>
</tr>
<tr>
<td>Research skills</td>
<td>1 and 2</td>
<td>15</td>
<td>Delivered through a tutorial-based system alongside a lecture series this module develops keys skills in research design and implementation, including data collection techniques and analysis.</td>
</tr>
<tr>
<td>Rural geographies</td>
<td>1</td>
<td>15</td>
<td>Considers the contemporary geographies of rural space, focusing on how academics understand the ‘rural’ and exploring the contestations around the nature and purpose of the countryside in the 21st century.</td>
</tr>
<tr>
<td>Sedimentary processes</td>
<td>1</td>
<td>15</td>
<td>This module addresses aspects of physical, chemical and biological processes of sedimentation in the context of the depositional settings in which they operate.</td>
</tr>
<tr>
<td>Social and cultural geographies</td>
<td>2</td>
<td>15</td>
<td>Introduces the sub-fields of social and cultural geographies. In particular, the module explores the relationships between social identities (e.g., gender, class, sexuality and ethnicity), power, and space and examines the ways in which meaning is produced through ‘culture’ (such as media, performance, and material culture).</td>
</tr>
<tr>
<td>Soils, slopes and the environment</td>
<td>2</td>
<td>15</td>
<td>Introduces you to pure and applied soil science. It covers themes such as components of soil, pedogenic processes, soil profiles and soil classification.</td>
</tr>
<tr>
<td>Statistics for social scientists</td>
<td>1</td>
<td>15</td>
<td>Equips you with key numeracy and statistical skills and develops data analysis skills using industry standard statistical software.</td>
</tr>
<tr>
<td>Strategic plan making</td>
<td>2</td>
<td>15</td>
<td>Provides an introduction to the methods and techniques that are used in the preparation and implementation of strategic plans and policies.</td>
</tr>
<tr>
<td>Urban morphology and place making</td>
<td>2</td>
<td>15</td>
<td>Introduces the history, theories and practice of urban design as the principal means of creating and protecting the quality of ‘place’ in the urban fabric. It teaches the basic techniques and skills required to achieve an understanding the character and quality of places, including the key components of urban form and the main theories behind place-making.</td>
</tr>
<tr>
<td>Urban sociology</td>
<td>2</td>
<td>15</td>
<td>Provides an introduction to classical and contemporary social scientific approaches to the study of urban life.</td>
</tr>
</tbody>
</table>

Please note: modules may not be available across all programmes, please check programme specific module lists on pages 08-15.
# Core and selected optional modules overview

## Year Three

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate change: a critical review</td>
<td>2</td>
<td>15</td>
<td>Provides you with the knowledge to evaluate the likely outcomes of climate change and climate variability over the next 100 years, to understand policy decisions at different levels, to obtain a critical understanding of climate predictions, and to understand the importance of reference to past and present climates.</td>
</tr>
<tr>
<td>Coastal environments: spatial and temporal change</td>
<td>1</td>
<td>15</td>
<td>Examines how coastal geomorphology, sedimentary and biological systems and socio-economic infrastructures will respond to changes in sea-level and climate.</td>
</tr>
<tr>
<td>Dissertation</td>
<td>1</td>
<td>30</td>
<td>Provides an opportunity for you to develop their own research project on a topic of their choice. You are supported by an expert academic supervisor on a one-to-one basis, guiding them through all stages of research design, data collection, interpretation, and write up.</td>
</tr>
<tr>
<td>Embodied and everyday geographies</td>
<td>1</td>
<td>15</td>
<td>Develops students’ critical understanding of the relationships between bodies, identities and everyday politics.</td>
</tr>
<tr>
<td>Environmental assessment (EIA and SEA)</td>
<td>1</td>
<td>15</td>
<td>Provides a comprehensive overview of the theory and practice of strategic environmental assessment and projects of policies, plans and programmes and of the environmental impact assessment of projects. On completion of the modules students will be able to understand why and how EIA and SEA are important to further an environmentally sustainable development and influence behaviours. These will also have a clear understanding of SEA and EIA requirements and practices and know how to collect, analyse and report environmental information and data in SEA and EIA.</td>
</tr>
<tr>
<td>Evolution, oceans and climate</td>
<td>1</td>
<td>15</td>
<td>Develops knowledge and understanding of the major controls on the behaviour of the earth’s oceans, climates and the interaction of climate and the evolution of life on earth.</td>
</tr>
<tr>
<td>Field class: Barcelona</td>
<td>2</td>
<td>30</td>
<td>Through field research the module draws comparison between the cities of Liverpool and Barcelona, exploring how both have become templates for urban renewal following industrial decline.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Module title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Field class: Europe</td>
<td>2</td>
<td>30</td>
<td>Develop an understanding of the physical landscape of Europe and its modification by human action; to get to know the basic geomorphic evolution of the area in light of climate change; to comprehend the interplay of processes acting at different spatial and temporal scales in the present day landscape; to realise the importance that the physiographic setting has for natural resources, land use and natural hazards, and how human land use has transformed the landscape, applied in a climatic context not found in the UK.</td>
</tr>
<tr>
<td>Field class: Santa Cruz (California) or Iceland</td>
<td>2</td>
<td>30</td>
<td>Provides a unique opportunity to undertake two weeks high quality human or physical geography field-based research.</td>
</tr>
<tr>
<td>Field class: Toronto</td>
<td>2</td>
<td>30</td>
<td>Features a 12-day intensive field visit to Toronto, where you will explore the human geographies of the city through independent field observations and group research projects.</td>
</tr>
<tr>
<td>Fluvial environments</td>
<td>2</td>
<td>15</td>
<td>Examines the main components of the fluvial system, and develops an understanding of the dynamics and controls on water and sediment flux and how these produce different types of landforms.</td>
</tr>
<tr>
<td>Gender, the body and identity</td>
<td>2</td>
<td>15</td>
<td>Explores a number of different and contrasting theoretical approaches which place gender, the body and identity at the centre of analysis including: feminist sociology, radical feminism, corporeal feminism, poststructural feminism, black feminism, queer theory and material feminism.</td>
</tr>
<tr>
<td>Geographic data science</td>
<td>1</td>
<td>15</td>
<td>This module enables you to develop a theoretical knowledge of GIS and to develop a practical ability to apply GIS in the handling and analysis of spatial data.</td>
</tr>
<tr>
<td>Geographic information systems</td>
<td>1</td>
<td>15</td>
<td>Enables you to develop a theoretical knowledge of GIS and to develop a practical ability to apply GIS in the handling and analysis of spatial data.</td>
</tr>
<tr>
<td>Geographies of Poland</td>
<td>2</td>
<td>15</td>
<td>Focuses on the social and geographical developments in Poland since 1939, considering the three key periods of second world war, socialism and post-socialism.</td>
</tr>
<tr>
<td>Geographies of resistance</td>
<td>1</td>
<td>15</td>
<td>This module surveys how geographers and others have theorised protest, resistance and other strategies for change though a range of theoretical approaches and case studies.</td>
</tr>
<tr>
<td>Global carbon cycle</td>
<td>2</td>
<td>15</td>
<td>Provides a view of the ocean carbon cycle as a dynamic system. It gives students an appreciation of the importance of chemical and biological processes in controlling the distribution of carbon in the ocean, and the impact environmental change may have on it.</td>
</tr>
<tr>
<td>Green infrastructure</td>
<td>2</td>
<td>15</td>
<td>Introduces the field of green infrastructure and green space planning by addressing its principles, values and utility within urban planning. Drawing on a wide range of case study material the module examines the influence of landscape ecology and the politics of planning on urban development to question how, where and why we use green infrastructure to meet quality of life and place agendas. By examining the relationship between the landscape, planning policy and human interactions the module will highlight opportunities to implement positive urban greening at a number of scales.</td>
</tr>
<tr>
<td>Human-environment interactions</td>
<td>1</td>
<td>15</td>
<td>This module aims to demonstrate and review how successful management of modern and future landscapes often requires a long time perspective.</td>
</tr>
</tbody>
</table>

Please note: modules may not be available across all programmes, please check programme specific module lists on pages 08-15.
## Core and selected optional modules overview

### Year Three (continued)

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>International planning studies</td>
<td>2</td>
<td>30</td>
<td>Working from a global perspective this module requires students to critically examine the process and function of planning in a number of countries. This is achieved by providing an understanding of the purposes, principles and methods of comparative planning study and the potential and challenges of cross-national comparison and learning. Students will also develop an awareness of the ‘context-dependent’ nature of planning as an activity embedded in different national, cultural, political and spatial settings.</td>
</tr>
<tr>
<td>Ireland: political, social and cultural geographies</td>
<td>2</td>
<td>15</td>
<td>Gives you the chance to develop your knowledge of Irish cultural geography from human settlements until the present.</td>
</tr>
<tr>
<td>Marine ecology: theory and applications</td>
<td>2</td>
<td>15</td>
<td>Develops the connections between ecological theory and the management of marine communities and ecosystems.</td>
</tr>
<tr>
<td>Maritime geographies</td>
<td>2</td>
<td>15</td>
<td>Enables students to develop a critical understanding of how, historically, maritime worlds have shaped global geographies, an awareness of how physically the seas have shaped port cities and develop a deep knowledge of how in the present era, oceans are vital to legal, economic and environmental concerns.</td>
</tr>
<tr>
<td>Issues in geography</td>
<td>2</td>
<td>15</td>
<td>Gives you the chance to examine a topic or an approach which is new to them. By Year Three, you will have well-focused areas of study, based on dissertations and module choices. This module allows you to take a step back from this focus and to consider new areas of investigation.</td>
</tr>
<tr>
<td>Natural hazards and society</td>
<td>1</td>
<td>15</td>
<td>Provides an integrated perspective on a variety of natural hazards. It explores the different levels of impact on human societies, and the mitigation/adaptation strategies adopted before, during and after extreme natural events.</td>
</tr>
<tr>
<td>Ocean dynamics</td>
<td>1 and 2</td>
<td>15</td>
<td>Develop your understanding of how physical processes operate in the ocean, including the open ocean and shelf seas, as well as how analogous phenomena in the atmosphere behave.</td>
</tr>
<tr>
<td>Peace activism in a dangerous world</td>
<td>2</td>
<td>15</td>
<td>Provides a detailed overview of the different forms of peace building.</td>
</tr>
<tr>
<td>Planning and property development</td>
<td>1</td>
<td>15</td>
<td>This module is concerned with the processes through which the built environment is used, produced, managed and renewed. Its objectives are to introduce methods of property valuation, property market dynamics and the processes of urban and rural development (including regeneration, estate management and conservation).</td>
</tr>
<tr>
<td>Planning law and governance</td>
<td>1</td>
<td>15</td>
<td>Extends your knowledge of the governance, institutional and political contexts in which spatial planning operates within the UK and to examine the relationships between planners as professional and technical experts, clients, civil society and citizens. It also introduces current town and country planning legislation in England and Wales and to provide an overview of the law relating to the management of development in practice.</td>
</tr>
</tbody>
</table>

Please note: modules are provided for information only and may change. Timetabling restrictions may apply.

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<table>
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<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Politics of the environment</td>
<td>1</td>
<td>15</td>
<td>Critically evaluates the political responses to the growing impact that environmental issues and the concept of sustainability are having on decision making at all levels of governance, (international, national and local).</td>
</tr>
<tr>
<td>Postcolonial geographies</td>
<td>1</td>
<td>15</td>
<td>Explores the relevance of postcolonial ideas to understanding the contemporary world. The module explores these ideas through a variety of scenarios including historical aspects of colonialism that still resonate today (such as issues of race and ethnicity) and more contemporary issues (such as migration in a globalising world). The module involves a mix of lectures, film viewings, field visits and discussion groups.</td>
</tr>
<tr>
<td>Race, community and identity</td>
<td>2</td>
<td>15</td>
<td>Explores the impact of colonialism on patterns of migration to Britain in the post war period and the creation of greater ethnic diversity. It examines the changing nature of racism as an ideology by exploring and contextualising scientific and institutional forms of racisms and “newer” manifestations through Islamophobia and the conflictual relationship between the state and minority ethnic communities.</td>
</tr>
<tr>
<td>Science communication</td>
<td>1</td>
<td>15</td>
<td>You will learn about science communication and then prepare and deliver practical science workshops to local schools (primary and secondary).</td>
</tr>
<tr>
<td>Social and spatial inequalities</td>
<td>2</td>
<td>15</td>
<td>Gives you an understanding of several core areas of social and spatial inequalities and how these interrelate.</td>
</tr>
<tr>
<td>Social justice</td>
<td>2</td>
<td>15</td>
<td>Develops an understanding of both secular and religious concepts of social justice and investigates the role that social justice activism can play in society.</td>
</tr>
<tr>
<td>Surviving the marine environment: adaption, behaviour and conservation</td>
<td>1</td>
<td>15</td>
<td>Fosters a broad understanding of contemporary theory in behavioural ecology, evolutionary biology and ecophysiology in the marine environment.</td>
</tr>
<tr>
<td>Teaching geography</td>
<td>1 and 2</td>
<td>15</td>
<td>Provides teaching experience for undergraduates who are considering teaching as a potential career as well as providing key transferable skills including; communication; presentation; practical classroom skills and team working.</td>
</tr>
<tr>
<td>Urban and regional regeneration</td>
<td>1</td>
<td>15</td>
<td>This module tasks students to understand the theory and practice of urban regeneration and provides them with the ability to develop planning policy responses in different situations. To achieve this students will need to examine and be able to discuss alternative theoretic approaches to solving problems of urban renaissance and be able to critically evaluate examples of urban policies and plans associated with urban renaissance. They will also gain experience of alternative theoretical approaches to solving problems of neighbourhood renewal and be able to critically evaluate examples of urban policies and plans associated with neighbourhood renewal.</td>
</tr>
<tr>
<td>Urban design and regeneration project</td>
<td>2</td>
<td>15</td>
<td>Students will, by means of a realistic design brief through the process of analysing a large site, carry out necessary contextual studies and then prepare an urban design framework, an indicative site master plan and develop a smaller part of the site in more detail.</td>
</tr>
<tr>
<td>Work based dissertation</td>
<td>1</td>
<td>30</td>
<td>This module gives you the opportunity to undertake an independent research project tailored to a specific work environment or industry. It involves a minimum of 20 days work-experience over the summer between Year Two and Three.</td>
</tr>
</tbody>
</table>

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